

## STIC Database tracking

TO: Amy H Bowman

Location: REM-2Q31&2C18

Art Unit: 1635

Cyalatra and Maria s

Wednesday, May 04, 2005

Case Serial Number: 10/605498

From: Paul Schulwitz

**Location: Biotech-Chem Library** 

**REM-1A65** 

Phone: 571-272-2527

paul.schulwitz@uspto.gov





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151975

From:

Bowman, Amy

Sent:

Thursday, April 28, 2005 12:54 PM

To:

STIC-Biotech/ChemLib

Cc: Subject: Bowman, Amy 10/605,498

Hello,

I need a search of SEQ ID NO: 82 in application 10/605,498, length limited to 20 nucleobases. (I do not need any complements, just matches).

Thanks, Amy Bowman AU 1635 REM 2C18

STAFF USE ONLY

Searcher:
Searcher Phone: 2Date Searcher Picked up:
Date Completed:
Searcher Prep/Rev. Time:
Online Time:

\*\*\*\*\*\*\*

Type of Search

NA#:\_\_\_\_ AA#:\_\_\_
Interference:\_\_ SPDI:\_\_
S/L:\_\_ Oligomer:\_\_
Encode/Transl:\_\_ Text:\_\_
Structure#:\_\_\_ Text:\_
Inventor:\_\_ Litigation:\_\_\_

Vendors and cost where applicable

STN:\_\_\_\_\_\_
DIALOG:\_\_\_\_\_
QUESTEL/ORBIT:\_\_\_\_\_
LEXIS/NEXIS:\_\_\_\_\_
SEQUEDICE SYSTEM:

Other(Specify):\_\_\_\_

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Sequence Sequence Sequence Sequence

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Sequence

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SEQUENCES
GENES
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MEDIUM TYPE: Diskette
COMPUTER: Diskette
COMPUTER: Diskette
COMPUTER: Diskette
OPERATING SYSTEM: DOS
SOFTWARE: FASTEM DATA:
APPLICATION DATA:
APPLICATION NUMBER: US/09/046,858A
FILING DATE: 24-MAR.1998
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/042,376
FILING DATE: 24-MAR.1997
ATTORNEY APPLICATION NUMBER: 60/042,376
FILING DATE: 24-MAR.1997
ATTORNEY AGENT THORMATION:
NAME: Dehlinger, Peter J.
REGISTRATION NUMBER: 28,006
REFERENCE/DOCKET NUMBER: 2000-0456.30
TELECOMMUNICATION INFORMATION:
TELECHOME 650-324-0860
                  US-08-481-066A-66
US-09-313-376-6
US-08-829-6378-66
US-10-025-139-66
PCT-US95-06160-15
US-09-218-79-31
US-09-402-618B-79
US-09-402-618B-79
US-09-402-618B-79
US-09-402-618B-79
US-09-402-618B-79
US-08-95-64-31
US-08-95-861-313
US-08-912-951-244
US-09-912-951-244
US-09-402-181B-477
US-09-402-181B-477
US-09-373-124A-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 19, Application US/09046858A
; Sequence 19, Application US/09046858A
; GENERAL INFORMATION:
    APPLICANT: Rodriguez, Raymond L.
    TITLE OF INVENTION: SUGAR-REGULATORY SEQ.
    TITLE OF INVENTION: IN ALPHA-AMYLASE GENINUMBER OF SEQUENCES: 21
    CORRESPONDENCE ADDRESS:
    ADDRESSER: Dehlinger & Associates
    STREET: PO Box 60850
    CITY: Palo Alto
                                                                                                                                                                                                                                                                                                                                                                                                                                   ALIGNMENTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEX:
INFORMATION FOR SEQ ID NO: 15
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNTRY:
Sequence 16, Appl
Sequence 16, Appl
Sequence 9, Appli
Sequence 13, Appl
Sequence 13, Appl
Sequence 18, Appl
Sequence 18, Appl
Sequence 12, Appl
Sequence 18, Appl
Sequence 18, Appl
Sequence 18, Appl
Sequence 18, Appl
Sequence 122, Appl
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Sequence 19, Appl
Sequence 9, Appli
                                                                                                                                                                       (without alignments)
263.916 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 9,
Sequence 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Description
                                                                                                                                              May 3, 2005, 17:57:30 ; Search time 124 Seconds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Issued Patents NA:*

(cgn2_6/ptodata/1/ina/5A_COMB.seq:*
(cgn2_6/ptodata/1/ina/5B_COMB.seq:*
(cgn2_6/ptodata/1/ina/6A_COMB.seq:*
(cgn2_6/ptodata/1/ina/6B_COMB.seq:*
(cgn2_6/ptodata/1/ina/RDGTUS_COMB.seq:*
(cgn2_6/ptodata/1/ina/RDGTUS_COMB.seq:*
                    GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-09-046-B5BA-19

US-09-450-515-19

US-08-182-175A-9

US-08-182-175A-16

US-08-182-771-16

PCT-0152-06412-9

US-09-467-642-13

US-09-467-642-13

US-09-467-642-13

US-09-467-642-13

US-08-656-716-18

US-08-656-716-18

US-08-656-716-18

US-08-835-728D-122

US-09-123-951-42

US-09-123-951-42

US-09-123-951-42

US-09-123-951-42

US-09-123-951-42

US-09-490-558-18

US-09-490-558-18
                                                                                                                                                                                                                                                                                                                                                                                                                                 Potal number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                        1202784 seqs, 818138359 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                        nucleic search, using sw model
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Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                     US-10-605-498-82
20
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Match Length
```

Minimum DB seq length; 0 Maximum DB seq length: 20

Database

Result

Scoring table:

Searched:

Title: Perfect score:

Sequence:

OM nucleic

Run on:

65.0%; Score 13; DB 3; Length 20; 100.0%; Pred. No. 7.1e+03; ive 0; Mismatches 0; Indels Query Match 65.0 Best Local Similarity 100. Matches 13; Conservative

STRANDEDNESS: single

, TOPOLOGY: US-09-046-858A-19

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3 GACGCGGCGCTCG 15

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Sequence 15,

Sequence sequence Sequence

Sequence

Sequence

Sequence 66,

JS-08-488-177-66 JS-08-481-072A-66

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LOCATION: 1..20
OTHER INFORMATION: /product= "synthetic oligonucleotide"
OTHER INFORMATION: /standard_name= "SM 70"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         62.0%; Score 12.4; DB 1; Length 20; 92.9%; Pred. No. 1.3e+04; tive 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CHIMERIC GENES AND
METHODS FOR INCREASING
INCREASING THE LYSINE
AND THREONINE CONTENT
OF THE SEEDS OF PLANTS
                                     MEDIUM TYPE: Floppy Disk
COMPUTER: Macintosh
OPERATING SYSTEM: Macintosh System, 6.0
SOFTWARE: Microsoft Word, 4.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/182,175A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
APPLICANT: E. I. DU PONT DE NEMOURS AND
APPLICANT: COMPANY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: MICROSOFT WORD VERSION 2.0C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PONT DE NEMOURS
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                                                                                                                                                                                  CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/743,006
FILING DATE: 9 AUGUST 1991
ATTORNEY/AGENT INFORMATION:
NAME: Linda Axamethy Floyd
REGISTRATION NUMBER: 33,692
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 16, Application US/08474633A Patent No. 5773691
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
                                                                                                                                                                                                                                                                                                                                     REFERENCE/DOCKET NUMBER: B
TELECOMMUNICATION INFORMATION
TELEPHONE: (302) 992-4929
TELEFAX: (302) 892-7949
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1007 MARKET STREET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MOLECULE TYPE: DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                                                                         TELEX: 835420
INFORMATION FOR SEQ ID NO: 9
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE OF INVENTION: CHIMER TITLE OF INVENTION: METHOD TITLE OF INVENTION: AND TITLE OF INVENTION: OF THE NUMBER OF SEQUENCES: 107
CORRESPONDENCE ADDRESSE: ADDRESSEE: B. I. DU PONT ADDRESSEE: B. I. DU PONT ADDRESSEE: AND COMPANY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5 CGCGGCGCTCGGTC 18
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APPLICATION NUMBER: US
FILING DATE:
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                   COMPUTER READABLE FORM:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Best Local Similarity
Matches 13; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         linear
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                                                                                                                                                                  FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COUNTRY: U
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Patent No. 555923
GENERAL INFORMATION:
APPLICANT: Saverio Carl Falco
APPLICANT: Sharon J. Keeler
APPLICANT: Janet A. Rice
TITLE OF INVENTION: Synthetic Storage Proteins with Defined Structure Containing NUMBER OF SEQUENCES: 113
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
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                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastERD for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/450,515
FILING DATE: 29-No. 6680425-1999
CLASSIFICATION ADTA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: 09/046,858
FILING DATE: <UNKnown>
ATTORNEY/AGENT INFORMATION:
NAWE: Dehlinger, Peter J.
REGISTRATION NUMBER: 28,006
REGISTRATION NUMBER: 28,006
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
                                                                                                                                                              APPLICANT: Rodriguez, Raymond L.
TITLE OF INVENTION: SUGAR-REGULATORY SEQUENCES
IN ALPHA-AMYLASE GENES
NUMBER OF SEQUENCES: 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3: E.I. du Pont de Nemours and Company
1007 Market Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 13; DB 4; Lo
Pred. No. 7.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS:
ADDRESSE: Dehlinger & Associates
STREET: PO Box 60850
CITY: Palo Alto
STATE: CA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TOPOLOGY: linear sEQUENCE DESCRIPTION: SEQ ID NO: 19: US-09-450-515-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        65.0%; Scur.
100.0%; Pre
                                                                                                   Sequence 19, Application US/09450515
Patent No. 6680425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEPHONE: 650-324-0880
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEFAX: 650-324-0960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 19:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 65.0
Best Local Similarity 100.
Matches 13; Conservative
2 GACGCGCGCTCG 14
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CITY: Wilmington
STATE: Delaware
                                                                                                                                                 GENERAL INFORMATION:
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US-09-450-515-19
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Gaps

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APPLICANT: Saverio Carl Falco
APPLICANT: Sharon J. Keeler
APPLICANT: Sharon J. Keeler
APPLICANT: Janet A. Rice
TITLE OF INVENTION: Synthetic Storage Proteins with Defined Structure Containing PN
NUMBER OF SEQUENCES: 113
CORRESPONDENCE ADDRESS:
ADDRESSEE: E.I. du Pont de Nemours and Company
STRET: 1007 Market Street
CITL: Wilmington
STATE: Delaware
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                         Score 12.4; DB 3; Length 20;
Pred. No. 1.3e+04;
0; Mismatches 1; Indels
                                                                                                                                                                                                  NAME/KEY: misc_feature
LOCATION: 1..20
OTHER INFORMATION: /product= "synthetic oligonucleotide"
/standard_name= "SM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy Disk
COMPUTER: Macintosh
COMPUTER: Macintosh
COMPUTER: Macintosh
COMPUTER: Macintosh
COMPUTER: Macrosoft Word, 4.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/06412
FILING DATE: 19920807
CLASSIFICATION DATA:
APPLICATION NUMBER: 07/743,006
FILING DATE: 9 August 1991
ATTORNEY/AGENT INFORMATION:
NAME: Linda Axamethy Floyd
REGISTRATION NUMBER: 33,692
REFERENCE/DOCKET NUMBER: BB-1031
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (302) 992-4929
                                                                                                                                                                                                                                                                                                                                                        SEQUENCE DESCRIPTION: SEQ ID NO: 16:
US-08-823-771-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 9, Application PC/TUS9206412
GENERAL INFORMATION:
                                                                                                                                             TOPOLOGY: linear MOLECULE TYPE: DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEX: 835420
INPORMATION FOR SEQ ID NO: 9: SEQUENCE CHARACTERISTICS: LENGTH: 20 base pairs TYPE: NUCLEIC ACID STRANDEDNESS: single TOPOLOGY: linear MOLECULE TYPE: DNA (genomic)
                          INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: mucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                           62.0%;
92.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               : (302) 992-4929
(302) 892-7949
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  7 cécrécériceare 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5 CGCGCGCTCGGTC 18
                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match. 62.0
Best Local Similarity 92.9
Matches 13; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PCT-US92-06412-9
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Pred. No. 1.3e+04;
0; Mismatches 1; Indels
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MEDIUM TYPE: FLORPY DISK
MEDIUM TYPE: FLORPY DISK
COMPUTER: IBW PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOSTWARE: MICROSOFT WORD VERSION 2.0C
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/823,771
FILING DATE: 24-Mar-1997
CLASSIFICATION: cUnknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/474,633
FILING DATE: cunknown>
ATTORNEY/AGENT INFORMATION:
NAME: BARBARA C. SIEGELL
REGISTRATION NUMBER: 30,684
REFERENCE/DOCKET NUMBER: 30,684
TELECOMMUNICATION NUMBER: 30,684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 16, Application US/08823771
Patent No. 6459019
GENERAL INFORMATION:
APPLICANT: E. I. DU PONT DE NEMOURS AND COMPANY
TITLE OF INVENTION: CHIMERIC GENES AND METHODS FOR INCREASING INCREASING THE LYSINE INCREASING THE LYSINE AND THREONINE CONTENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADDRESSEE: E. I. DU PONT DE NEMOURS
AND COMPANY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      oligonucleotide"
/standard_name= "SM
                                                                                                  BB-1037-C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STREET: 1007 MARKET STREET
CLASSIFICATION: 800
ATTORNEY AGENT INFORMATION:
NAME: BARBARA C. SIEGELL
REGISTRATION NUMBER: 30,684
REFERENCE/DOCKET NUMBER: BB-10
TELECOMMUNICATION INFORMATION:
TELEFAX: 302-992-4931
TELEFAX: 302-773-0164
TELEFAX: 302-773-0164
INFORMATION FOR SEQ ID NO: 16: SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
LENGTH: 20 base pairs
TYPE: NUCleic acid
STRANDENNESS: single
STRANDENNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEFAX: 302-773-0164
                                                                                                                                                                                                                                                                                                                                  TOPOLOGY: linear MOLECULE TYPE: DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          62.0%;
92.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQUENCES: 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
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STATE: DELAWARE
COUNTRY: U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 62.0
Best Local Similarity 92.9
Matches 13; Conservative
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COTHER INFORMATION: //
COTHER INFORMATION: OTHER INFORMATION: //
COTHER INFORMATION: //
COTHER INFORMATION: //
COTHER INFORMATION: //
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Gaps

2; Indels

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APPLICANT: Anderson, Todd
APPLICANT: Dahlberg, James
APPLICANT: Dahlberg, James
FITLE OF INVENTION: Target-Dependent Reactions Using Structure-Bridging Oligonucleotic
FILE REPERBNCS: FORS-04012
CURRENT APPLICATION NUMBER: US/09/402,618B
PRIOR APPLICATION NUMBER: PCT/US98/03194
PRIOR FILING DATE: 1999-05-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; DB 4; Length 18; 3e+04;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Herman, James G.
APPLICANT: Baylin, Stephen B.
TITLE OF INVENTION: METHYLATION SPECIFIC DETECTION
NUMBER OF SEQUENCES: 52
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.
                                                                                                                                                                                             Score 11.8; DB 3;
Pred. No. 2.5e+04;
0; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 11.6; DE
Pred. No. 3e+04
0; Mismatches
                                                                                                                , OTHER INFORMATION: Antisense Oligonucleotide US-09-467-642-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          IE: Fish & Richardson P.C.
225 Franklin Street
                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 75, Application US/09402618B Patent No. 6709815
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 18, Application US/08656716
Patent No. 5786146
GENERAL INFORMATION:
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SOFTWARE: PatentIn version 3.0
SEQ ID NO 75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          vuery Match
Best Local Similarity 77.8%;
Matches 14; Conservative
                                                                               TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                             Query Match
Best Local Similarity 86.7%;
Matches 13; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OTHER INFORMATION: Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
APPLICANT: Dong, Fang
APPLICANT: Lyamichev, Victor
                                                                                                                                                                                                                                                                               5 CGCGGCGCTCGGTCA 19
                                                                                                                                                                                                                                                                                                                       18 CGCGGCGATCGGACA 4
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Fors, Lance
Neri, Bruce
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Brow, Mary Ann
                    NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STATE: MA
COUNTRY: USA
ZIP: 02110-2804
  CURRENT FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Abbara
STREET: ZETTY: Boston
                                                                                                                                                                                                                                                                                                                                                                                                    -09-402-618B-75/c
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                                       SEQ ID NO 13
LENGIH: 20
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                                                                                                                                                                                                                                                                                                                                                                                                      EXOENZYME S
                                                                                                                         ó;
                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                       GENERAL NO. 5599665
GENERAL INFORMATION:
APPLICANT: Barbieri, Joseph T.
APPLICANT: Frank, Dara W.
TITLE OF INVENTION: EXOENZYME S PROTEIN PREPARATION AND CLONED NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
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Pred. No. 2.5e+04;
4; Mismatches 1; Indels
    /product= "synthetic oligonucleotide"
/standard_name= "SM 70"
                                                                                   Length 20;
                                                                                                                         1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/171,299B
                                                                                 Score 12.4; DB 5;
Pred. No. 1.3e+04;
0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  E: QUARLES & BRADY
411 East Wisconsin Avenue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ZIP: 53202-4497
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MOLECULE TYPE: Other Nucleic Acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 13, Application US/09467642
Patent No. 6300132
GRNERAL INFORMATION:
APPLICANT: Brett P. Monia
APPLICANT: Lex M. Cowsert
                                                                                                                                                                                                                                                                                   US-08-171-299B-6/c
; Sequence 6, Application US/08171299B
; Patent No. 5599665
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CLASSIFICATION: 435
ATTORNEY/AGENT INPOMATION:
NAME: BAKET, Jean C.
REGISTRATION NUMBER: 35,433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE/DOCKET NUMBER: 6
TELECOMMUNICATION INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEPAONE: (414) 277-5709
TELEFAX: (414) 271-3552
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
                                                                                   62.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 59.0%;
Best Local Similarity 66.7%;
Matches 10; Conservative
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15 RGARGCSGCSCTSGG 1
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                                                                                                                           Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: nucleic acid
STRANDEDNESS: single
; OTHER INFORMATION:
; OTHER INFORMATION:
PCT-US92-06412-9
                                                              . Query Match
Best Local Similarity
--hes 13; Conserv?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STATE: Wisconsin COUNTRY: U.S.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CITY: Milwaukee
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-09-467-642-13/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADDRESSEE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              INFORMATION FOR SEQ ID NO: 18: SEQUENCE CHARACTERISTICS: LENGTH: 17 base pairs TYPE: nucleic acid strandEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Herman, James G. APPLICANT: Baylin, Stephen B.
                                                                           57.0%;
92.3%;
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92.3%;
                                                                         Query Match
Best Local Similarity 92.3
Matches 12; Conservative
                                                                                                                                                  5 CGCGGCGCTCGGT 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
                   ; MOLECULE TYPE: DNA US-08-656-716-42
   linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                CITY: La Jolla
STATE: CA
COUNTRY: USA
ZIP: 92037
                                                                                                                                                                                                                                           RESULT 12
US-08-835-728D-18
   TOPOLOGY:
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Pred. No. 3.7e+04;
); Mismatches 1; Indels
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Sequence 42, Application US/08656716

Patent No. 5786146

ERNERAL INFORMATION:
APPLICANT: Herman, James G.
APPLICANT: Baylin, Stephen B.
TITLE OF INVENTION: METHYLATION SPECIFIC DETECTION
NUMBER OF SEQUENCES: 52
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM FC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
APPLICATION NUMBER: US/08/656,716
FILING DATE:
                                                                     SOFTWARE: Patentin Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
PALLCATION NUMBER: US/08/656,716
PILING DATE:
                                                                                                                                       TLILING TATLES.

CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Halle, Lisa A.
NAME: Halle, Lisa A.
REGISTRATION NUMBER: 38,347
REFERENCE/BOCKET NUMBER: 07265/089001
TELECOMMUNICATION INFORMATION:
TELERHONE: 617/542-8906
TELERA: 200154
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
TYPE: nucleic acid
TYPE: nucleic acid
STRANDEDENESS: single
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ATTORNEY, AGENT INFORMATION:
NAME: Haile, Lisa A.
REGISTRATION NUMBER: 38,347
REFERENCE/DOCKET NUMBER: 07265/089001
TELECHOMUNICATION INFORMATION:
TELEPHONE: 617/542-6070
TELEFRAX: 617/542-8906
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADDRESSEE: Fish & Richardson P.C. STREET: 225 Franklin Street
               MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     57.0%;
92.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3 CGCGGCGTTCGGT 15
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Best Local Similarity 92.3
Matches 12; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5 CGCGCGCTCGGT 17
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LENGTH: 17 base pairs
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INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         single
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: nucleic acid
STRANDEDNESS: sing
                                                                                                                                                                                                                                                                                                                                                                                                              linear
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US-08-656-716-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STREET: 225 F
CITY: Boston
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       USA
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Pred. No. 3.7e+04;
0; Mismatches 1; Indels
Score 11.4; DB 1; Length 17;
Pred. No. 3.7e+04;
0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
OPERATION SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/835,728D
FILING DATE: April 11, 1997
CLASSIFICATION: 435
PRIOR APPLICATION UNBER: 08/656,716
FILING DATE: Unne 03, 1996,
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                  Sequence 18, Application US/08835728D
Patent No. 6017704
GENERAL INFORMATION:
APPLICANT: Herman, James G.
APPLICANT: Baylin, Stephen B.
TITLE OF INVENTION: Methylation Specific Detection
NUMBER OF SEQUENCES: 216
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.
STREET: 4225 Executive Square, Suite 1400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   07265/125001
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; Sequence 122, Application US/08835728D
; Patent No. 6017704
; PAPELICANT: Herman, James G.
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DB 3; Length 17; .7e+04;
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Sequence 42, Application US/09123951

Patent No. 6200756

GENERAL INFORMATION:
APPLICANT: Herman, James G.
APPLICANT: Baylin, Stephen B.
TITLE OF INVENTION: METHYLATION SPECIFIC DETECTION
NUMBER OF SEQUENCES: 52

CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: Patentin Release #1.0, Version #1.30 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/09/123,951
                                                                                                                                                                                                                                                                                                                                                                                          ed. No. 3.76
Mismatches
                                                                                                                                                                                                                                                                                                                                                                       Score 11.4;
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TELECOMMINICATION:
TELEPHONE: 617/542-5070
TELEPRAX: 617/542-8906
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/656,716
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225 Franklin Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                           NAME: Haile, Lisa A.
REGISTRATION NUMBER: 38,347
REFRENCE/DOCKET NUMBER: 0726
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/542-6070
TELEFAX: 617/542-8906
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME: Haile, Lisa A. REGISTRATION NUMBER: 38,347
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92.3%;
      FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Haile, Lisa A.
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                                                                                                                                           TELEFAX: 617/542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                            LENGTH: 17 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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TYPE: nucleic acid
STRANDEDNESS: single
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Best Local Similarity
Matches 12; Conserva
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02110-2804
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TOPOLOGY: lin
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TELEX: 2
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                                                                                                                                   COUNTRY: USA
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUW TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/835,728D
FILING DATE: April 11, 1997
CLASSIFICATION: 435
PRIOR APPLICATION UNBER: 08/656,716
FILING DATE: Unne 03, 1996,
ATTORNEY/AGENT INFORMATION:
IIILE OF INVENTION: Methylation Specific Detection WHBER OF SEQUENCES: 216
CORRESPONDENCE ADDRESS:
CADRESSEE: Fish & Richardson P.C.
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Sequence 18, Application US/09123951
Patent No. 6200756
GENERAL INFORMATION:
APPLICANT: Herman, James G.
APPLICANT: Baylin, Stephen B.
TITLE OF INVENTION: METHYLATION SPECIFIC DETECTION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/123,951
                                                      SSEE: Fish & Richardson P.C.
F: 4225 Executive Square, Suite 1400
La Jolla
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/656,716
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STREET: 225 Franklin Street
CITY: Boston
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME: Haile, Lisa A.
REGISTRATION NUMBER: 38,347
REFERENCE/DOCKET NUMBER: 072
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/678-5070
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            INFORMATION FOR SEC ID NO: 122: SEQUENCE CHARACTERISTICS: LENGTH: 17 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               57.0%;
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Best Local Similarity 92.3
Matches 12; Conservative
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FDNESS: single
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
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MOLECULE TYPE:
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0; Gaps Best Local Similarity 92.3%; Pred. No. 3.7e+04; Matches 12; Conservative 0; Mismatches 1; Indels

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Search completed: May 3, 2005, 21:11:30 Job time: 126 secs

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WHE0629 B DKFZp434C CcLL01a03

1M0401F19

2M0150L21 2822626.5 7LEAF--07

1M0011A24 2M0008P11

PRI0158d AJ682954

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Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Bukaryota; Metazoa; Chordata; Sciurognathi; Muridae; Murinae; Mus.
E 1 (bases 1 to 20)
E 1 (bases 1 to 20)
S Dunn, D. Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, B., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R.
Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah
University of Utah
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /lab_host="E. coli strain XL10-Gold, Tl-resistant, P-"
Clorde lib-mouse lobb plasmid UNGC2M library"
/note="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (female) was obtained from the Jackson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (http://www.jax.org/resources/documents/dnares/). The DNA
                                                                                                                                                                                                                                                                                                                                                          AZ961140
2M0229P20F Mouse 10kb plasmid UUGC2M library Mus musculus genomic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC,
84112, USA
                                              BE516032 V
AL042746 I
CA967213 (
                                                                                                                           AZ308410
AZ775705
AG194315
CL668826
AJ682145
AJ682145
AW246093
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CF303743 A
BM394214
BM394638
AZ314110
AZ864551
BM401265
                                     AZ591658
                                                                                        AZ849133
                                                                                                               CF302285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0229 row: P column: 20
Seq primer: CGTTGTAAAACGACGCCAGT
Class: plasmid ends
High quality sequence stop: 20.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Laboratory Mouse DNA Resource
                                                                                                                                                                                                                                                                                              ALIGNMENTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1. .20
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AG194315
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AJ682954
AW246093
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BE516032
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CF303743
                                                                                                                                                                                                                                                                                                                                                                                                                                        Mus musculus (house mouse)
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AZ961140.1 GI:13832367
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Tel: 801 585 5606
Fax: 801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mus musculus
 SOURCE
                                                                                                                                                                                                                                                                                                                                                                         DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                    ACCESSION
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AZ961140
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KEYWORDS
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1M0401F19
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5009-0-2-
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252.583 Million cell updates/sec
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AZ775541
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BM399952
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                                                                                     May 3, 2005, 17:44:01; Search time 3014 Seconds
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          GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                               34239544 segs, 19032134700 residues
                                                                                                                                                                                                                                                       Total number of hits satisfying chosen parameters:
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                                                                                                                                                                                                                                                                                                                   Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                            nucleic search, using sw model
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BF966452
AZ992240
AJ594923
BM396331
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BM400305
BM400816
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20
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9b_est2:

9b_htc:

9b_est4:

9b_est6:

9b_gs81:

9b_gs81:
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Match Length
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seq length: 20
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41.0
41.0
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GSS 27-APR-2001

50072-2-2

2821250.5

Scoring table:

Searched:

Minimum DB Maximum DB

Database

Title: Perfect score:

Sequence:

OM nucleic

Run on:

5

Result

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Sus scrofa (pig)
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KEYWORDS
SOURCE
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KEYWORDS
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ORGANISM
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AUTHORS
TITLE
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LOCUS
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was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polymorase and polymorase complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into
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0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BM395903
5009-0-13-G11.t.1 Chilcoat/Turkewitz cDNA (large fraction)
Tetrahymena thermophila cDNA, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /db xref="taxon:5911" /db xref="taxon:5911" /dlone lib="Chilcoat/Turkewitz cDNA (large fraction)" /olone lib="Wetcor: BlueScripts SK+; Details on library preparation can be found in Chilcoat and Turkewitz (2001) proc. Natl. Acad. Sci USA, 98: 8709-8713."
                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                    chemically-competent E. coli XLIO-Gold (Stratagene) cells and selected for ampicillin resistance."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EST from Tetrahymena thermophila, strain CU428.1, growing cells Unpublished (2002)
Contact: Turkewitz AP
Molecular Genetics and Cell Biology
University of Chicago
920 E. 58th Street, Chicago, IL 60637, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                         Gaps
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Bukaryota, Alveolata, Ciliophora, Oligohymenophorea,
Hymenostomatida, Tetrahymenina, Tetrahymena.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 (bases 1 to 19)
Turkewitz, A.P., Karrer, K.M., Jahn, C., Orias, B., Kirk, K.B., Frankel, J. and Klobutcher, L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
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Pred. No. 9.1e+06;
0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                               47.0%; Score 9.4; DB 8; Length 20; 90.9%; Pred. No. 7.4e+06; Live 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /organism="Tetrahymena thermophila"
/mol_type="mRNA"
/gtrain="CU428.1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Email: apturkew@midway.uchicago.edu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sed primer: T3.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BM395903.1 GI:18195956
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    retrahymena thermophila
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Best Local Similarity 78.6%;
Matches 11; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Tel: 773 702 4374
Fax: 773 702 3172
                                                                                                                                                                                                                                                                                                                                                                           10; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                  6 GCGCCCTCGG 16
                                                                                                                                                                                                                                                                                                                                                                                                                                            8 GCTGCGCTCGG 18
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Best Local Similarity
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ORGANISM
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JOURNAL
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BM395903
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KEYWORDS
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RESULT 3

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EMKATYORGA METAZOA; Chordata; Craniata; Vertebrata; Euteleostomi; Enkkaryora; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.

1 (bases 1 to 20)

8 Anderson,S.I.; Finlayson,H.A. and Archibald,A.L.

Development of cDNA and EST resources for studying reproduction and embryo development in pigs and cattle

1 (Dipublished (2004)

Contact: Anderson SI

Genomics and Bioinformatics

Roslin institute

Roslin, Midlothian, EHZS 9PS, UNITED KINGDOM

Single pass sequencing. Bases called and trimmed with phred

Single pass sequencing. Bases called and trimmed with her minscore 20

who.020425.c. Vector identified by cross_match with the -minscore 20

and -minmatch 12 options. Vector:pBlueScriptIN(Ks+) R. Site 1:

and -minmatch 12 options. Vector:pBlueScription: Normalised library constructed

From pooled tissue from day 30 placentas. Clones available from UN

Centre for Functional Genomics in Farm Animals, Roslin Institite,

Roslin, Midlothian, UK, EH2S 9PS, www.arkgenomics.org.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /mol trype="mmna"
/mol trype="mmna"
/db xref="taxon:9823"
/clone="worker bylacenta"
/rissue trype="placenta"
/clone lib="CSEGRAN09"
/note="worker: pBlueScriptII(KS+); Site 1: EcoRI; Site_2:
NotI; Single pass sequencing. Normalised library
constructed from pooled tissue from day 30 placentas."
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Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Ralam, D., Aoyagi, A., Mahmoud, M., Meenen, B., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R.

Mouse whole genome scaffolding with paired end reads from 10kb
20 bp mRNA linear BST 28-JUN-2004
CSEQRAN09 Sus scrofa cDNA clone C0000033_E03, mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AZ775541 16-FEB-200 2M008H17F Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC2M0008H17 F, genomic survey sequence.
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Pred. No. 9.1e+06;
0; Mismatches 3; Indels.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /organism="Sus scrofa"
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                                                                                                                                                 GI:49350835
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78.6%;
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Best Local Similarity 78.0.
Local 11; Conservative
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Fax: 82 31 321 6355
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
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Matches 9
                                                                            Bource
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CF305567
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KEYWORDS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polymucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|4732114 [gb]AFL29072.1) a copy-number inducible derivative of plasmid R1. The vector was ligated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Oryza sativa (japonica cultivar-group)
Oryza sativa (japonica cultivar-group)
Bukaryota, Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Bukaryota, Wagnoliophyta; Liliopsida; Poales; Poaceae;
Bhrhartoideae; Oryzae; Oryza.

1 (bases 1 to 20)
Kim,J.S., Jun,K.M., Cheong,P.J., Kim,M.J., Lee,T.H., Shin,Y.C.,
Large-scale Sequencing Analysis of Rice ESTS
Unpublished (2003)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
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20 bp mRNA linear EST 14-AUG-20
14ETL--08-C23.g1 Rice etiolated leaf plasmid cDNA library (14ETL)
Oryza sativa (japonica cultivar-group) cDNA clone 14ETL--08-C23,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Genomics and Genetics Institute, GreenGene Biotech Inc.; Division of Bioscience and Bioinformatics, MyongJi University
                                                                                                                                                                                                                                                                                                                                                                                          /lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse_10kb plasmid UTGCIM library"
/note="Vector: PWD42Ivv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Gaps
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Pred. No. 1.1e+07;
0; Mismatches 5; Indels
                                                           Bmail: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0008 row: H column: 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Laboratory Mouse DNA Resource
                                                                                                             Plate: 0008 row: H column: 17
Seq primer: CGTTGTAAAACGACGGCCAGT
                                                                                                                                                                                                                                                  /organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/69"
                                                                                                                                                   Class: plasmid ends
High quality sequence stop: 19.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                        /db_xref="taxon:10090"
/clone="UUGC2M0008H17"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Yongin, Kyeonggi, Korea
Tel: 82 31 330 6193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CF281215.1 GI:33658602
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               45.0%;
                                                                                                                                                                                                                                                                                                                                                                       sex="Male"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity 70.64
Pest Local 2. Conservative
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
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                                                                                                                                                                                                                                    1. .19
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Oryza sativa (japonica cultivar-group)

EMCATORIA (japonica cultivar-group)

EMCATORIA (japonica cultivar-group)

EMCATORIA (japonica cultivar-group)

EMCATORIA (japonica cultivar-group)

ENCATORIA (japonica cultivar-group)

Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;

Enrhartoideae; Oryzeae; 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                HDA1--01-B07.gl OsHDACl-overexpressing transgenic rice lambda phage cDNA library I (HDA1) Oryza sativa (japonica cultivar-group) cDNA clone HDA1--01-B07, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
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/clone lib="Object 2000."
/note="Vector: pBluescript SK(+); Site 1: EcoRI; Site 2: XhoI; Callus was treated with ABA(20um) for Ihour. cDNA was inserted into lambda Uni-ZAP XR vector at 5' end with EcoRI and 3' end with XhoI site. mRNA was derived from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /dev stage="proliferated callus on 2N6 media for 2 weeks"
/lab_host="E.coli SOLR"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /note="Vector: pCR4-TOPO; Site 1: EcoRI; mRNA was capped with oligoribonucleotides and then used as templates for RT-PCR."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /clone lib="Rice etiolated leaf plasmid cDNA library (14ETL)"
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                                                                                                                                                          organism="Oryza sativa (japonica cultivar-group)"
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Email: bhnahm@ggbio.com, bhnahm@bio.myongji.ac.kr.
    Location/Qualifiers
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Pred. No. 1.1e+07;
0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                               /db_xref="taxon:39947"
/clone="14RTL--08-C23"
/tissue_type="leaf"
/dev stage="14 days after germination"
/lab_host="E.coli DH10B"
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/clone="HDA1--01-B07"
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/cultivar="Nackdong"
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/cultivar="Nackdong"
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CF305567.1 GI:33677328
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/organism="Mus musculus"
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Fax: 801 585 7177
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                                                                                                                                                                                  32425195 100026548-5020 Aspergillus terreus random genomic DNA clone library Aspergillus terreus genomic, genomic survey sequence.
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                                                                                                                                                                                                                                                                                                                       Eukaryota; Fungi; Ascomycota; Pezizomycotina; Eurotiomycetes;
Eurotiales; Trichocomaceae; mitosporic Trichocomaceae; Aspergillus.
1 (bases 1 to 18)
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Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
1 (bases 1 to 19)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               clone lib="Aspergillus terreus random genomic DNA clone
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Sau3A genomic fragments ligated into BamHI digested
pZErOTM-2
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One Kendall Square Building 1400 W, Cambridge, MA 02139, USA
Tel: 617-621-8322
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AJ649246 CSEQRAN19 Sus scrofa cDNA clone C0003271_P09, mRNA
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/mol_type="genomic DNA"
/mol_type="genomic DNA"
/db.ref="texpon:33178"
/lab_host="Escherichia coli"
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Score 8.8; DB 7; Length 17;
Pred. No. 1.4e+07;
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Pred. No. 1.4e+07;
D; Mismatches 2;
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83.3%;
   44.0%;
83.3%;
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Aspergillus terreus
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                                    10; Conservative
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Roslin Institute
Roslin, Midlothian, EH25 9PS, UNITED KINGDOM
Single pass sequencing. Bases of trimmed with phred
Single pass sequencing. Bases of trimmed with the -minscore 20
and -minmatch 12 options. Vector:pBlueScriptII(KS) R. Sitel: ECORI
R. Site2: NotI 5' Seq Primer M13F Normalised library constructed
from pooled ovaries. Clones available from UK Centre for Functional
Genomics in Parm Animals, Roslin Institite, Roslin, Midlothian, UK,
Anderson, S.I., Finlayson, H.A. and Archibald, A.L.
Development of cDNA and EST resources for studying reproduction and embryo development in pigs and cattle
Unpublished (2004)
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/clone="C0003271_P09"
/tissue type="ovary"
/clone_lib="CSEQRAN19"
/note="vector: pBlueScript11(KS+); Site_1: EcoRI; Site_2:
Not1; Single pass sequencing; Normalised library
constructed from pooled ovaries"
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1M0438B15F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
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Mammalia; Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 19)
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University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20
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83.3%; Pred. No. 1.4e+07;
ive 0; Mismatches 2
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Insert Length: 10000 Std Error: 0.00
Plate: 0438 row: B column: 15
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Class: plasmid ends
High quality sequence stop: 19.
Location/Qualifiers
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Location/Qualifiers
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/mol_type="mRNA"
                                                                                                                                 Contact: Anderson SI
Genomics and Bioinformatics
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                                                                                                                                                                                                                                 (http://www.iax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polymucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pwD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. Coli XLIO-Gold (Stratagene) cells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AZ591658 20 bp DNA linear GSS 13-DEC-2000 1M0401F19R Mouse 10kb plasmid UUGCIM library Mus musculus genomic clone UUGCIM0401F19 R, genomic survey sequence.
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University of Utah
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
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Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Nederhausern, A. and Wright, D. Weiss, R.

Mouse whole genome scaffolding with paired end reads from 10kb
                                                                                                                                         /clone lib="Mouse 10kb plasmid UUGCiM library"
//note="Vector: PMD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
                                                                                                                  lab host="E. Coli strain XL10-Gold, T1-resistant, F-"
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Insert Length: 10000 Std Error: 0.00
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Plate: 0401 row: F column: 19
eag primer: CACACAGGAAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 20.
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"mol_type="genomic DNA"
strain="C57BL/6J"
                                             /db_xref="taxon:10090"
/clone="UUGC1M0438B15"
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Fax: 801 585 7177
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(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polymuclectide kinase. Adaptor oligonuclectides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gil 47321141gb]AP129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
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In John 16, 2001 this sequence version replaced gi:12333667.

Con Jan 16, 2001 this sequence version replaced gi:12333667.

Contact: Robert Stramberg, Ph.D.

Email: cgapbs-r@mail.inih.gov

Tissue Procurement: Miklos Palkovits, M.D., Ph.D.

CDNA Library Preparation: Michael J. Brownstein (NHGRI), Shiraki

CDNA Library Preparation: Michael J. Brownstein (LIML)

DNA Sequencing by: The I.M.A.G.E. Consortium (LIML)

DNA Sequencing by: Tncyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:

http://image.llnl.gov

Plate: LLAM10041 row: d column: 17

High quality sequence stop: 20.

High quality sequence stop: 20.
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602287066F1 NIH_MGC_95 Homo sapiens CDNA clone IMAGE:4375648 5',
                      /sex="male"
/lab host="B. Coli strain XL10-Gold, T1-resistant, F-"
/lab host="B. Coli strain XL10-Gold, T1-resistant, F-"
/clone lib="wouse 10kb plasmid UUGCIM library"
/notes="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
Laboratory Mouse DNA Resource
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Wataryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Bammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 20)
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National Institutes of Health, Mammalian Gene Collection (MGC)
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83.3%; Pred. No. 1.4e+07;
iive 0; Mismatches 2;
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/organism="Homo sapiens"
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/db_xref="taxon:9606"
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/clone="UUGC1M0401F19"
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Matches 10; Conserva
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/clone_lib="NIH MGC 95"
/clone_lib="NIH MGC 95"
/note="Organ: brain; Vector: pBluescriptR (modified pBluescript KS+); Site_1: Bamil; Site_2: Sall-XhoI (gtcgag); Oligo-dT primed using primer
| crystarrTrTrTrTrTrTvW-3' size-selected for average insert size 2.5 kb and normalized to ROT 5; This is a primary library enriched for full-length clones and primary library enriched for full-length clones and constructed using the Cap-trapper method (Carninci, in preparation). Library constructed by M. Brownstein (NIMH/MIGRI, National Institutes of Health). Note: this is a NIH_MGC Library."
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2M0276M15R Mouse 10kb plasmid UUGC2M library Mus musculus genomic
clone UUGC2M0276M15 R, genomic survey sequence.
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/clone_lib="Mouse lokb plasmid UUGC2M library"
/note="Wector: PMP42nv; Prified genomic DNA from M.
musculus C57BL/6J (female) was obtained from the Jackson
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University of Utah Genome Center
University of Utah
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC,
84112, USA
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Insert Length: 10000 Std Error: 0.00
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Seg primer: CACACAGGAAACAGCTATGACC
Class: plasmid ends
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/strain="C57BL/6J"
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/clone="UUGC2M0276M15"
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Fax: 801 585 7177
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Direct Submission

Submitted (123-OCT-2003) Balzergue S., UMRGV, INRA/CNRS, 2 rue gaston Cremieux, 91057 Evry cedex, FRANCE
PCR was performed on DNA from transformants of Arabidopsis thaliana plants from INRA (Versailles). The DNA fragment(s) resulting from the PCR were directly sequenced from the left or the right border to determine the genomic sequence flanking the insertion. T-DNA derived sequences were removed. Information to order the corresponding mutant line and a link to a database providing a graphical display of the insertion site are available at http://dbsgap.versailles.inra.fr/publiclines/. This sequence has been generated in the framework of the French plant genomics program 'Genoplante' (http://www.genoplante.com and http://genoplante-info.infobiogen.fr).

Location/Qualifiers
polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWAD42 (gilf4732114 [gb]AR129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent B. coll XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Arabidopsis thaliana T-DNA flanking sequence, left border, clone 408B05, genomic survey sequence.
AJS94923
AJS94933
GSS, 1eft house
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Brunaud, V., Balzergue, S., Dubreucq, B., Aubourg, S., Samson, F., Alavin, S., Bechtold, N., Craudd, C., DeRose, R., Pelletier, G., Lepiniec, L., Caboche, M. and Lecharny, A.

T_DNA integration into the Arabidopsis genome depends on sequences
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1 Similarity 73.3%; Pred. No. 1.7e+07;
11; Conservative 0; Mismatches 4; Indels
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/organism="Arabidopsis thaliana"
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/cultivar="Wassillewskija"
/db xref="taxon:3702"
/clone="408B05"

    .13
/note="T-DNA flanking sequence
left border"

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Search completed: May 3, 2005, 21:09:19 Job time : 3021 secs
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Bukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Caryophyllales; Amaranthaceae; Beta.
1 (bases 1 to 19)
Hervig R., Schulz, B., Weisshaar, B., Hennig, S., Steinfath, M.,
Drungowski, M., Stahl, D., Wruck, W., Menze, A., O'Brien, J., Lehrach, H.
                                                                                                                                                                                                                 EST 17-JAN-2002
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/clone lib="Chilcoat/Turkewitz cDNA (large fraction)"
/clone lib="Chilcoat/Turkewitz SK+; Details on library
preparation can be found in Chilcoat and Turkewitz (2001)
Proc. Natl. Acad. Sci USA, 98: 8709-8713."
                                                                                                                                                                                                                                                                                                                                                                                                                                                    EST from Tetrahymena thermophila, strain CU428.1, growing cells Unpublished (2002)
                                                   Gaps
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Hymenostomatida, Tetrahymenina, Tetrahymenidae, Tetrahymena.
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Frankel, J. and Klobutcher, L.
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                 Length 13;
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                                                   1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /organism="Tetrahymena thermophila"
/mol_type="mRNA"
/strain="CU428,1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Contact: Turkewitz AP
Molecular Genetics and Cell Biology
University of Chicago
920 B. 58th Street, Chicago, IL 60637, USA
Tel: 773 702 4374
Fax: 773 702 3172
               Score 8.4; DB 9;
Pred. No. 2.2e+07;
0; Mismatches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Email: apturkew@midway.uchicago.edu
Seq primer: T3.
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Tetrahymena thermophila
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CP542982.1 GI:34891422
                                                                                                                                                                                                                                                                                     BM396331.1 GI:18196384
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               42.0%;
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Turkewitz, A.P., Kan
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Best Local Similarity 66...
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Matches 9; Conservative
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CF542982
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SOURCE
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/note="Wector: pCMVSPORT6; Site 1: Sal1; Site 2: Not1; Site 2: Not1; Site 2: Not1; Site 2: Not1; Site 3: All sary from sugar beet, library provided by KWS Kleinwanzlebener Saatzucht AG Einbeck, Germany, contact: b.schulz@kws.de; cloning sites Sal1-Not1, primer sites and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SP6-Sall-CCACGCGTCCG-Sprime-cDNA-polyA-CC-NotI-T7; Note:
Construction of a 'unigene' cDNA clone set by oligonucleotide fingerprinting allows access to 25 000 potential sugar beet genes Plant J. 32 (5), 845-857 (2002)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequencing granted in the context of the GABI-Beet project, local PI: Dr. Katharina Schneider, coordinator: Prof. Christian Jung; Sequence submission managed by RZPD/GABI-Primary database:http://gabi.rzpd.de"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1. .19
/organism="Beta vulgaris"
/organism="BRNA"
/orlLivar="MRNA"
/orlLivar="KW82320 (double haploid, monogerm breeding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1; Indels
                                                                                                                       12472698
Contact: Weisshaar B
ADIS DNA core facility at MPIZ
MAX-Planck-Institute for Plant Breeding Research
Carl-von-Linne Weg 10, 50829 Koeln, Germany
Fax: 0049215062851
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /tissue_type="leaf"
/lab_host="EMDH10B"
/clone_lib="MPIZ-ADIS-024-leaf"
                                                                                                                                                                                                                                                                                                                Email: weisshaa@mpiz-koeln.mpg.de
Insert Length: 19 Std Brror: 0.00
Plate: 30 row: P column: 12
Seg primer: SP6.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0; Mismatches
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|db xref="taxon:161934"
|clone="024-030-P12"
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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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OM nucleic - nucleic search, using sw model

Run on:

May 3, 2005, 19:41:30 ; Search time 489 Seconds (without alignments) 248.985 Million cell updates/sec

US-10-605-498-82 20 Title: Perfect score:

1 gggacgcggcgctcggtcat 20 Sequence:

IDENTITY NUC Gapop 10.0 , Gapext 1.0 Scoring table:

5642217 segs, 3043843248 residues Searched:

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 20

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

Published Applications NA:\*

12. (cgn2\_6)ptodata/2/pubpna/USO7 PUBCOMB.seq:\*
2. (cgn2\_6)ptodata/2/pubpna/USO7 PUBCOMB.seq:\*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Appl	Appl	Appl	3, Ap	Appl	Appl	Appl	Appl	Appl	103, App	Ann
е.	82,	90,	19,	877	16,	16,	20,	13,			c
Description	Sequence 82, App	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	000000000000000000000000000000000000000
QI	US-10-605-498-82	US-10-605-498-90	US-10-206-654-19	US-10-131-827-8773	US-10-023-066A-16	US-10-804-678-16	US-10-198-677-20	US-10-148-355A-13	US-10-394-808-28	US-10-394-808-103	00-100-000-000
DB	18	18	14	17	14	18	15	17	18	18	0
* Query Match Length DB	20	19	20	20	20	20	19	20	20	20	c
% Query Match	100.0	95.0	65.0								
Score	20	19	13	12.6	12.4	12.4	11.8	11.8	11.8	11.8	9
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31, A 31, A 31, A	32,	75 75 14 20	1620 530, 597, 598,	47, 7 7, AE 103, 7, AE	6 86, , , , , , , , , , , , , , , , , ,	Sequence 28, Appl Sequence 9, Appli Sequence 4, Appli Sequence 926, App Sequence 926, App
000	US-09-882-945 US-09-942-662 US-09-764-420 US-10-231-302 US-10-608-804	23262	US-10- US-10- US-10- US-10-	1 US-09-825-566-47 8 US-10-240-126-47 8 US-10-670-011-7 8 US-10-670-011-103 9 US-10-764-957-7 9 US-10-764-957-7	US-10 US-10 US-10 US-10	US-09-791-243-28 0 US-09-963-668B-9 4 US-10-096-595B-4 US-09-504-231A-926 US-09-274-553D-926
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## ALIGNMENTS

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US-10-605-498-82

US-10-605-498-82

Sequence 82, Application US/10605498

Publication No. US20040127441A1

GENERAL INFORMATION:

APPLICANT: Glaswe, Martin

APPLICANT: Signaevsky, Maxim

TITLE OF INVENTION: Cancers

TITLE OF INVENTION: Cancers

FILE REFERENCE: UBC.P-031

CURRENT APPLICATION NUMBER: US 60/415,859

PRIOR PILING DATE: 2003-10-02

PRIOR PLING DATE: 2003-10-02

PRIOR PLING DATE: 2003-04-18

NUMBER OF SEQ ID NOS: 91

SOFTWARE: PatentIn version 3.2

SEQ ID NO 82

LENGTH: 20

WALL CANCERS OF SET OF S
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; ORGANISM: Homo sapiens
US-10-605-498-82
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ö Query Match 100.0%; Score 20; DB 18; Length 20; Best Local Similarity 100.0%; Pred. No. 4.1; Matches 20; Conservative 0; Mismatches 0; Indels Š

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Gaps

GGGACGCGCGCTCGGTCAT 20 1 GGGACGCGCCCTCGGTCAT 20 셤

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COMPUTER READABLE FORM
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ZIP: 19898
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        Sequence 90, Application US/10605498

| Publication No. US20040127441A1
| GENERAL INFORMATION:
| APPLICANT: Gleave, Martin
| APPLICANT: Gleave, Martin
| APPLICANT: Signaeveky, Maxim
| TITLE OF INVENTION: Compositions and Methods for Treatment of Prostate and Other
| TITLE OF INVENTION: Cancers
| FILE REFERENCE: UBC.P-031
| CURRENT PILING DATE: 2003-10-02
| PRIOR FILING DATE: 2003-10-02
| PRIOR FILING DATE: 2003-4-18
| NUMBER OF SEQ ID NOS: 91
| NUMBER OF SEQ ID NOS: 91
| CONTINUED DATE: 2003-4-18
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                                                                                                                                                                                                                                                                                                                                                                                                               Score 19; DB 18; Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 19, Application US/10206654
Publication No. US20030033634A1
GENERAL INFORMATION:
APPLICANT: Rodriguez, Raymond L.
TITLE OF INVENTION: SUGAR-REGULATORY SEQUENCES
INVENTION: SUGAR-REGULATORY SEQUENCES
NUMBER OF SEQUENCES: 21
                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 95.0%; Score 19; DB Best Local Similarity 100.0%; Pred. No. 13; Matches 19; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS:
ADDRESSE: Deblinger & Associates
STREET: PO Box 60850
CITY: Palo Alto
STATE: CA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2 GGACGCGCGCTCGGTCAT 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 19 GGACGCGGCGCTCGGTCAT 1
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INFORMATION FOR SEQ ID NO: 19:
                                                                                                                                                                                                                                                                                                                                         ; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-605-498-90
JS-10-605-498-90/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-10-206-654-19
                                                                                                                                                                                                                                                                                                     SEQ ID NO 90
LENGTH: 19
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Sequence 8773, Application US/10131827

Sequence 8773, Application US/10131827

Publication No. US20040009479A1

SEQUENCE INFORMATION:

APPLICANT: Wohlgemuth, Jay

APPLICANT: Ly, Ngoc

ITILE OF INVENTION: CHENONIC INFLAMMATORY DISEASES

ITILE OF INVENTION: CHENONIC INFLAMMATORY DISEASES

FILE REFERENCE: 506612000120

CURRENT APPLICATION NUMBER: US/10/131,827

CURRENT APPLICATION NUMBER: US/10/106,290

PRIOR PAPLICATION NUMBER: US 10/006,290

PRIOR PELING DATE: 2001-10-2

PRIOR PILING DATE: 2001-06-08

NUMBER OF SEQ ID NOS: 9090

SOFTWARE PATENTY

ILENGTH: 20

LIENGTH: 20

LIENGTH: 20

LIENGTH: 20

LIENGTH: 20
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                                                                                                                                                                        Length 20;
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                                                                                                                                                                                                                    0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
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                                                                                                                                                                        Score 13; DB 14; ]
Pred. No. 1.1e+04;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DU PONT DE NEMOURS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: E. I. DU PONT DE NEMOURS AND COMPANY
                                                                                                                                                                                                                    0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Mismatches
                                                               ; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 19:
US-10-206-654-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AND COMPANY
STREET: 1007 MARKET STREET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; Sequence 16, Application US/10023066A; Publication No. US20030056242A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2 GGACGCGCCTCGGTCAT 20
               LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: DNA ORGANISM: Human cytomegalovirus
                                                                                                                                                                      65.0%; 2
100.0%;
SEQUENCE CHARACTERISTICS:
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78.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES: 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS:
ADDRESSEE: E. I. D
                                                                                                                                                                 Query Match
Best Local Similarity 100.'
Matches 13; Conservative
                                                                                                                                                                                                                                                          3 GACGCGCCCTCG 15
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Matches 15; Conservative
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us-10-605-498-82.rnpb

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APPLICANT: CHOO, Yen
APPLICANT: KLUG, Aaron
APPLICANT: KLUG, AARON
APPLICANT: MOORE, Michael
APPLICANT: MOORE, Michael
TITLE OF INVENTION: FLEXIBLE LINKERS CONNECTED NUCLEIC ACID BINDING
TITLE OF INVENTION: PLEXIBLE LINKERS CONNECTED NUCLEIC ACID BINDING
TITLE OF INVENTION: MOLECULES
FILE REPERENCE: 8325-2011 / G11-US1
CURRENT APPLICATION NUMBER: US/10/198,677
SCHRENT FILING DATE: 2002-07-17
NUMBER OF SEQ ID NOS: 144
SOFTWARE: Patentin Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: bsG
US-10-198-677-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /product= "synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            62.0%; Score 12.4; DB 18; 92.9%; Pred. No. 2.1e+04; iive 0; Mismatches 1;
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                   ATTORNEY/AGENT INFORMATION:
NAME: CHRISTENBURY, LYNNE MARE: NAME: MARE: LENSTENBURY, LYNNE MARE: LORISTENBURY, LYNNE MARE: LORISTRATION NUMBER: 30,971
REFERENCE/DOCKET NUMBER: BB-1037-F
TELECOMMUNICATION INFORMATION:
TELEFRA: 302-992-5481
TELEFRA: 302-992-7949
TELEX: 335420
INPORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE DESCRIPTION: SEQ ID NO: 16:
       APPLICATION NUMBER: 08/824,627
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; Sequence 13, Application US/10148355A
; Publication No. US20030207831A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 20, Application US/10198677
Publication No. US20030119023A1
GENERAL INFORMATION:
APPLICANT: CHOO, Yen
                                                                                                                                                                                                                                                                                                                                                                                                                             NAME/KEY: misc feature LOCATION: 1..20 OTHER INFORMATION: /prc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA ORGANISM: Artificial Sequence
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LENGTH: 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
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Pred. No. 2.1e+04;
0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 16, Application US/10804678
Sequence 16, Application WS/2005030A1
GENERAL INFORMATION:
GENERAL INFORMATION:
FALCO, SAVERIO CARL
MCDEVITT, RAYMOND ERVIN, III
MCDEVITT, RAYMOND ERVIN, III
INCREASING THE LYSINE CONTENT OF
THE SEEDS OF PLANTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CORRESPONDENCE ADDRESS:
ADDRESSEE: E. I. DU PONT DE NEMOURS AND COMPANY
STREET: 1007 MARKET STREET
CITY: WILMINGTON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY: misc_feature
LOCATION: 1..20
OTHER INFORMATION: /product= "synthetic
oligonucleotide"
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM FC COMPATIBLE
COMPUTER: IBM FC COMPATIBLE
COPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: MICROSOFT WORD VERSION 2.0C
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/023,066A
FILING DATE: 29-Apr-2002
CLASSIFFCATION: CURRIOWN->
ATTORINEY/AGENT INFORMATION:
NAME: BARBARA C. SIEGELL
REGISTRATION NUMBER: 30,684
REFERENCE/DOCKET NUMBER: BB-1037-C
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US/09/049,304
FILING DATE: 27-Mar-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US/10/804,678
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COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: MICROSOFT OFFIC
SOFTWARE: MICROSOFT WINDOWS 95
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; SEQUENCE DESCRIPTION: SEQ ID NO: 16:
US-10-023-066A-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE: 19-Mar-2004
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FEATURE:
                                                                                                                                                                                                                                                                                                            TELEPHONE: 302-992-4931
TELEFAX: 302-773-0164
                                                                                                                                                                                                                                                                                                                                              TELEX: 835420
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQUENCES: 132
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92.9%;
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COMPUTER READABLE FORM:
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Best Local Similarity 92.9°
Matches 13; Conservative
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Gaps

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Indels

Length 20;

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Gaps

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Indels

Length 19;

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Gaps

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Indels

Length 20;

GENERAL INFORMATION:

us-10-605-498-82.rnpb

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Score 11.8 / DB 18;
Pred. No. 4e+04;
1; Mismatches 2;
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Pred. No. 4e+04;
1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; OTHER INFORMATION: Antisense Oligonucleotide US-10-803-482-28
                                                                              59.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         59.0%;
                                                                                                                                                       1 GGGACGCGCCGCTCG 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ch 59.0%;
1 Similarity 86.7%;
13; Conservative
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                                                                         Query Match 59.0
Best Local Similarity 80.0
Matches 12; Conservative
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Best Local Similarity 80.0
Matches 12; Conservative
ORGANISM: H. sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: RNA
ORGANISM: H. sapiens
                                                                                                                                                                                                                                                    RESULT 11
US-10-803-482-28/c
                ; FEATURE:
US-10-394-808-103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-10-803-482-103
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US-10-803-482-103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Si
Matches 13;
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APPLICANT: Brett P. Monia
APPLICANT: Brett P. Monia
APPLICANT: Lax M. Cowsert
APPLICANT: Islx PHARMACEUTICALS, INC.
TITLE OF INVENTION: ARTISENSE MODULATION OF TELOMERIC REPEAT BINDING FACTOR 2
TITLE OF INVENTION: EXPRESSION
FILE REFERENCE: RTSP-0.082
CURRENT APPLICATION NUMBER: US/10/148,355A
CURRENT FILING DATE: 1999-112-17
NUMBER OF SEQ ID NOS: 89
LENGTH: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Brett P. Monia
APPLICANT: Brett P. Monia
APPLICANT: Brett P. Monia
APPLICANT: Mark J. Graham
TITLE OF INVENTION: MODULATION OF DIACYLGLYCEROL ACYLTRANSFERASE 1 EXPRESSION
FILE REPERBNCE: BIOLOGO3108
CURRENT APPLICATION NUMBER: US/10/394,808
CURRENT FILING DATE: 2003-03-21
NUMBER OF SEQ ID NOS: 152
LENGTH: 20
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APPLICANT: Brett P. Monia
APPLICANT: Mark J. Graham
TITLE OF INVENTION: MODULATION OF DIACYLGLYCEROL ACYLTRANSFERASE 1 EXPRESSION
FILE REFERENCE: BIOLO003US
CURRENT APPLICATION NUMBER: US/10/394,808
CURRENT FILING DATE: 2003-03-21
NUMBER OF SEQ ID NOS: 152
LENGTH: 20
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Pred. No. 4e+04;
0; Mismatches 2;
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Pred. No. 4e+04;
0; Mismatches 2;
                                                                                                                                                                                                                                                                                                             OTHER INFORMATION: Antisense Oligonucleotide
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Publication No. US20040185559A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 28, Application US/10394808; Publication No. US20040185559A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                          TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                               59.0%;
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ORGANISM: Artificial Sequence
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Best Local Similarity 86.7%;
Matches 13; Conservative (
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Matches
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Sequence 28, Application US/10803482
Publication No. US20040209938A1
EMBERAL INFORMATION:
APPLICANT: Brett P. Monia
APPLICANT: Brett P. Monia
APPLICANT: Brett B. Monia
APPLICANT: Brett B. Monia
APPLICANT: Brett B. Monia
APPLICANT: Brett B. Monia
APPLICANT: Brett B
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Publication No. US20040209838A1

GENERAL INFORMATION:

APPLICANT: Brett P. Monia

APPLICANT: Mark J. Graham

TITLE OF INVENTION: MODULATION OF DIACYLGLYCEROL ACYLTRANSFERASE 1 EXPRESSION

FILE REFERENCE: BIOLO003US

CURRENT FILING DATE: 2004-03-18

PRIOR APPLICATION UNMBER: US 10/394,808

PRIOR APPLICATION UNMBER: US 10/394,808

PRIOR APPLICATION NUMBER: US 10/3-18

PRIOR FILING DATE: 2003-03-21

NUMBER OF SEQ ID NOS: 231
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Pred. No. 4e+04;
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FEATURE:
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In Sample
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APPLICANT: Okamoto, No. US20020115072Aluko
APPLICANT: Suzuki, Tomohiro
TITLE OF INVENTION: Probe Bound Substrate, Process For
TITLE OF INVENTION: Manufacturing Same, Probe Array, Method Of
TITLE OF INVENTION: Detecting Target Substance, Method Of
TITLE OF INVENTION: Specifying Nucleotide Sequence Of Single-
TITLE OF INVENTION: Stranded Nucleotide Sequence Of Single-
TITLE OF INVENTION: Quantitative Determination Of Target Subst
                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 11.6; DB 9; Length 18; Pred. No. 5.1e+04;
           Sequence 31, Application US/09942588A

Patent No. US20020106667A1

GENERAL INPORMATION:
APPLICANT: Canon INC.
TITLE OF INVENTION: Screening method for gene variation
FILE REFERENCE: CFO 15717

CURRENT FILING DATE: 2001-08-31

PRIOR FILING DATE: 2000-08-31

PRIOR FILING DATE: 2000-08-31

NUMBER OF SEQ ID NOS: 67

LENGTH: 18
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Best Local Similarity 77.8%; Pred. No. 5.1e+04;
Matches 14; Conservative 0; Mismatches 4;
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CURRENT APPLICATION NUMBER: US/09/764,420A
CURRENT FILING DATE: 2001-01-19
                                                                                                                                                                                                                                                                                                                                                           ; OTHER INFORMATION: Sample oligonucleotide
US-09-942-588A-31
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) OTHER INFORMATION: Probe Sequence
Ug-09-764-420A-32
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ORGANISM: Artificial Sequence
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Best Local Similarity 77.8%;
Matches 14; Conservative
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SEQ ID NO 32
LENGTH: 18
US-09-942-588A-31
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US-09-764-420A-32
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; Sequence 31, Application US/09942596A; Patent No. US20020168648A1

RESULT 15 US-09-942-596A-31

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PAT 28-APR-2004
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AX453807 Sequence
BD000042 Probe-cou
BD085000 Target-de
AR271204 Sequence
AR138777 Sequence
AR138801 Sequence
AX078038 Sequence
AX0780819 Sequence
AX12154 Sequence
AX42154 Sequence
AX42154 Sequence
AX45725 Sequence
AX567229 Sequence
AX567813 Sequence
AX57813 Sequence
AX348120 Sequence
AX348120 Sequence
AX348120 Sequence
AX07701 Sequence
AR076701 Sequence
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Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                                                          AR300838 Sequence
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Compositions for treatment of prostate and other cancers
Patent: WO 2004030660-A 92 15-APR-2004;
The University of British Columbia (CA)
Location/Qualifiers
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100.0%; Pred. No. 8.4e+02;
ive 0; Mismatches 0;
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CQ799984
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CQ799992 19 bp RNA
Sequence 90 from Patent W02004030660.
CQ799992.1 GI:46848939
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /mol_type="unassigned DNA"
/db_xref="taxon:9606"
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/organism="Homo sapiens"
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AX412154
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AX348120
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Best Local
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CQ799992/c
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TITLE
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CQ799984
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AX270192 Sequence
BD13363 Method fo
BD160997 Terminal-
BD167492 Method
BD176975 Method of
AX488746 Sequence
AX391799 Sequence
AX391738 Sequence
AX419738 Sequence
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AR454276 Sequence
AR014592 Sequence
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BD010384 Chimeric
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                                                                                        3, 2005, 16:15:09 ; Search time 1802 Seconds (without alignments) 537.794 Million cell updates/sec
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              GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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AR370192
BD133653
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AR014592
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BD176975
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Gapop 10.0 , Gapext 1.0
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Maximum Match 100%
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Match Length DB
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90 htg: *
90 par: *
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Perfect score:
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Gaps

Homo sapiens Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

AX391650 AX391799 AX419738

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In (bases 1 to 20)
Falco, S.C., Keeler, S.J. and Rice, J.A.
Synthetic storage proteins with defined structure containing programmable levels of essential amino acids for improvement of the nutritional value of plants
Patent: US 5559223-A 9 24-SEP-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BD010384 20 bp DNA linear PAT 09-JAN-2004 Chimeric genes and methods for increasing the lysine content of the
                                                                                                                                                         PAT 07-0CT-1996
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Palco,S.C., Keeler,S.J. and Rice,J.A.
Chimeric genes and methods for increasing the lysine and threonine content of the seeds of plants
Patent: US 6459019-A 16 01-OCT-2002;
                Gaps
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Pred. No. 1.2e+06;
0; Mismatches 1
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/mol_type="unassigned DNA"
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Sequence 16 from patent US 6459019.
AR235394
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Sequence 9 from patent US 5559223.
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/organism="unknown"
/mol_type="genomic DNA"
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 Similarity 92.9%;
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Falco S.Carl., Keeler, S.Jo. and Rice, J.Ann.
Chimmeric genes and methods for increasing the lysine and threonine content of the seeds of plants
Patent: US 5773691-A 16 30-JUN-1998;
Location/Qualifiers
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 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo
                             Gleave, M.E., Rocchi, P. and Signaevsky, M.
Compositions for treatment of prostate and other cancers
Patent: WO 2004030660-A 90 15-APR-2004;
The University of British Columbia (CA)
Location/Qualifiers
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95.0%; Score 19; DB 6; Le
Best Local Similarity 100.0%; Pred. No. 2.2e+03;
Matches 19; Conservative 0; Mismatches 0;
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Pred. No. 6.6e+05;
0; Mismatches 0;
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    .19
/organism="Homo sapiens"
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/db_xref="taxon:9606"

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/organism="unknown"
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AR014592.1 GI:3972046
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Best Local Similarity 100.0%;
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Rodriguez, R.L.
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Choo, Y., Klug, A. and Moore, M.T.

Nucleic acid binding polypeptides characterized by flexible linkers connected nucleic acid binding modules

Patent: WO 0153480-A 20 26-JUL-2001;
Gendaq Limited (GB)

Location/Qualifiers
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                PAT 30-AUG-2001
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Monia, B.P. and Cowsert, L.M.
Antisense inhibition of telomeric repeat binding factor 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    59.0%; Score 11.8; DB 6; Length 20; 86.7%; Pred. No. 2.1e+06; Live 0; Mismatches 2; Indels
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86.7%; Pred. No. 2.1e+06;
tive 0; Mismatches 2;
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/organism="synthetic construct"
/mol_type="unassigned DNA"
/db xref="texon:32630"
/noTe="Binding site sequence"
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1 (bases 1 to 18)
                                                                                                                     other sequences; artificial sequences.
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Patent: US 6300132-A 13 09-OCT-2001;
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Sequence 13 from patent US 6300132.
AR370192
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Method for screening mutated gene.
BD133653
                AX202547 19 bp
Sequence 20 from Patent WO0153480.
AX202547
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/organism="unknown"
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JP 2002071687-A/31.
synthetic construct
synthetic construct
                                                           AX202547.1 GI:15392244
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Barbieri, J.T., Frank, D.W. and Kulich, S.M.
Barbieri, J.T., Frank, D.W. and Kulich, S.M.
Bseudomonas aeruginosa nucleic acids encoding exoenzyme S activity
and use thereof in detecting pseudomonas aeruginosa infection
Patent: US 5599665-A 6 04-FEB-1997;
Location/Qualifiers
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Pred. No. 1.2e+06;
0; Mismatches 1;
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/organism="unknown"
/mol_type="unassigned DNA"
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                                                                                                                                                                                                                                                                                                                                                                                                                  /organism="unidentified"
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Location/Qualifiers
                              BD010384.1 GI:18638757
JP 2001502923-A/16.
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92.9%;
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Unclassified.
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PAT 17-JAN-2003

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BD167492 17-JAN-2003
A method of analyzing a base sequence of a nucleic acid.
BD167492
                                                                                                                                                                                                                                                                                                               other sequences; artificial sequences.

1 (bases 1 to 18)

Okamcto,T., Yamamoto,N. and Suzuki,T.
Terminal-labeled probe-array and method for preparing it, and method for evaluating target mass using the same
Patent: JP 2002153284-A 31 28-MAY-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                OS Artificial Sequence
PN JP 2002153284-A/31
PD 28-MAY-2002
PP 24-NOY-2000
PF 24-NOY-2000
PI TADASHI OKAMOTO, NOBUKO YAMAMOTO, TOMOHIRO SUZUKI PC
C12N15/09, C12Q1/68, G01N31/22, G01N33/53, G01N33/566, G01N37/00, ECC Description of Artificial Colors (CC Description of Artificial Colors)
                                                                                                                                                              BD160997 Innear PAT 17-JAI Terminal-labeled probe-array and method for preparing it, and method for evaluating target mass using the same.
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E 1 (bases 1 to 18)
S Yamamoto, N. Okamoto, T. and Suzuki, T.
A method of analyzing a base sequence of a nucleic acid
L Patent: W0 0233068-A 31 25-APR-2002;
CANON KK,NOBUKO YAMAMOTO, TADASHI OKAMOTO, TOMOHIRO SUZUKI
OS Artificial Sequence
PN W0 0233068-A/31
PD 25-APR-2002
PF 18-OCT-2000 W0 2000JD007244
PI NOBUKO YAMAMOTO, TADASHI OKAMOTO, TOMOHIRO SUZUKI PC
C12N15/09,C12021/68,G01N33/56,G01N33/53
CC Sample origonucleotide
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Location/Qualifiers
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 4.
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 Mismatches
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                                   3 GACGCGCCTCGGTCAT 20
                                                                         1 GATGGGCTCTCGTTCAT 18
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synthetic construct
synthetic construct
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synthetic construct
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BD160997
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                                                                         Artificial Sequence
JP 2002071687-A/31
12-MAR-2002
31-AUG-2000 JP 2000263396
NOBUKO YAMAMOTO, TADASHI OKAMOTO, TOMOHIRO SUZUKI, SHINYA TANAKA
GOIN33/53, C12M1/00, C12N15/09, C12Q1/68, G01N31/22, G01N33/566, PC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BD135731 18-SEP-2002 Method for detecting subjective component in specimen sample, and substrate for detection used therefor.
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NOBUKO YAWAMOTO, TADASHI OKAMOTO, TOMOHIRO SUZUKI, AKIRA SHIMIZU
CIZN15/09, CIZM1/00, CIZM1/40, CIZQ1/68, G01N31/22, G01N33/53, PC
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Method for detecting subjective component in specimen sample, and
substrate for detection used therefor
Patent: JP 2002065274-A 35 05-MAR-2002;
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organism='Artificial Sequence'
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Yamamoto, N., Okamoto, T., Suzuki, T. and Tanaka, S. Method for screening mutated gene
Patent: JP 2002071687-A 31 12-MAR-2002;
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Pred. No. 2.6e+06;
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Key Location/Qualifiers
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synthetic construct
other sequences; artificial sequences.
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RESULT 12 BD135731

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AUTHORS TITLE

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Method of analyzing nucleic acid base sequence.

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PN JP 2002306166-A/31
PD 22-OCT-2002
PF 31-AUG-2000 JP 2000263506
PI NOBUKO YAMAMOTO, HISASHI OKAMOTO, TOMOHIRO SUZUKI PC
C12N15/09, C12Q1/68//C12M1/00, C12N15/00
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FH Key Location/Qualifiers
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FT Source / Organism='Artificial Sequence'.
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/organism='Artificial Sequence'.
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Best Local Similarity 77.8%; Pred. No. 2.6e+06;
Matches 14; Conservative 0; Mismatches 4; Indels
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synthetic construct
other sequences; artificial sequences.
(bases 1 to 18)
Yamamoto,N., Okamoto,H. and Suzuki,T.
Method of analyzing nucleic acid base sequence
Patent: JP 2002306166-A 31 22-OCT-2002;
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Location/Qualifiers

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    ^organism="synthetic construct"
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Adm94740 Human hea
Abz08781 Human CWV
Aaa40594 Human Arp
Aaq36810 Oligomer
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Add 94968 PCR prime
Add 9501 Plasmid p
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Add 73001 Probe rel
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Abd22451 Human myo
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GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
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Listing first 45 summaries
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Aaa58530 PCR prime	Aac99272 Probe seq	Abk72469 Sample or		Abl54931 Human tum	Abl46108 Mycobacte		Abl59666 Oligonucl	Abt06245 Synthetic	Adk82298 Mycobacte	Aah22265 Fibroblas	Adc65851 Mouse TGF	Abz98678 Human try	Abz87769 Human oli	Abd31709 Human Try	Abd23999 Human cal	Adj60557 Oligonucl		Adm82136 Monofilam	Adq76718 Enzymatic	Abk95806 Solute Ca	Abi99079 Human PCD	Aav09529 MSP ampli	Aav09425 CpG-conta	Adq78137 PCR prime
3 AAA58530	4 AAC99272	6 ABK72469	6 ABN99777	6 ABL54931	6 ABL46108	6 ABT04724	6 ABL59666	6 ABT06245	12 ADK82298 ·	4 AAH22265	10 ADC65851	10 ABZ98678	10 ABZ87769	11 ABD31709	11 ABD23999	12 ADJ60557	12 ADO46046	12 ADM82136	12 ADQ76718	6 ABK95806	6 ABI99079	2 AAV09529	2 AAV09425	12 ADQ78137
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## ALIGNMENTS

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ABZ08781 standard; DNA; 20

ABZ0878 RESULT

Human CMV PCR primer SEQ ID NO 8773.

(first entry)

09-JAN-2003

ABZ08781;

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The present invention describes a composition which comprises a therapeutic agent that reduces the amount of active heat shock protein 27 (hsp27) in hsp27 expressing cells exposed to the therapeutic agent. The composition has cytostatic activity, and can be used in gene therapy. The breast, pancreatic, colon, skin (for example melanoma), renal or ovarian cancer, pancreatic, colon, skin (for example melanoma), renal or ovarian cancer or a central nervous system malignancy. The present sequence represents a human hsp27 short interfering RNA (siRNA) oligonucleotide which is used in the exemplification of the present invention.
                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New composition comprising a therapeutic agent that reduces the amount of active hap27 in hsp27 expressing cells exposed to the therapeutic agent, useful in treating cancer, e.g., prostate cancer or a central nervous
composition is useful in treating cancer, e.g., prostate, bladder, lung, breast, pancreatic, colon, skin (for example melanoma), renal or ovarian cancer or a central nervous system malignancy. The present sequence represents a human hsp27 antisense oligonucleotide which is used in the exemplification of the present invention.
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heat shock protein 27 inhibitor; hsp27 inhibitor; cancer; human;
short interfering RNA; siRNA; RNA interference; RNAi; ds.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human heat shock protein 27 siRNA oligonucleotide SEQ ID NO:90.
                                                                                                                                                 Query Match
100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 19 BP; 3 A; 8 C; 6 G; 0 T; 2.U; 0 Other;
                                                                                                                Sequence 20 BP; 2 A; 6 C; 9 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 10; SEQ ID NO 90; 38pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Signaevsky M;
                                                                                                                                                                                                                               20
                                                                                                                                                                                                                                                                  1 GGGACGCGCCCTCGGTCAT 20
                                                                                                                                                                                                                               GGGACGCGCGCTCGGTCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (UYBR-) UNIV BRITISH COLUMBIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    02-OCT-2002; 2002US-0415859P.
18-APR-2003; 2003US-0463952P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     02-OCT-2003; 2003WO-CA001588
                                                                                                                                                                                                                                                                                                                                                             ADM94740 standard; DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                     01-JUL-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Rocchi P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2004-316331/29.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              system malignancy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO2004030660-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                    ADM94740;
                                                                                                                                                                                                                                   -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo
                                                                                                                                                                                                                                                                                                                                              ADM94740/
                                                                                                                                                                                                                                                                                                                          RESULT 2
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                                                                                                                                CMV; leukocyte; gene expression profiling; allograft rejection; atherosclerosis; congestive heart failure; systemic lupus erythematosus; rheumatoid arthritis; osteoarthritis; cytomegalovirus; infection; PCR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New system for leukocyte expression profiling, diagnosing a disease, or monitoring (the rate of) progression of a disease, e.g. atherosclerosis or congestive heart failure, comprises diagnostic oligonucleotides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Phillips J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 rheumatoid arthritis, osteoarthritis or cytomegalovirus infection. present sequence is that of a CMV PCR primer used in the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 12.6; DB 6; Length 20;
Pred. No. 2.7e+04;
0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Prentice J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 20 BP; 2 A; 5 C; 8 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Altman P, P, Johnson F;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             muth J, Fry K, Matcuk G, A
Woodward R, Quertermous T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 18; Page 142; Opp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2 GGACGCGCGCTCGGTCAT
                                                                                                                                                                                                                                                                                                                                                                      20-OCT-2000; 2000US-0241994P.
08-JUN-2001; 2001US-0296764P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          / Match 63.0%;
Local Similarity 78.9%;
les 15; Conservative
                                                                                                                                                                                                                                                                                                                                      22-OCT-2001; 2001WO-US047856
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAA40594 standard; DNA; 19
                                                                                                                                                                                                                             Human cytomegalovirus.
                                                                                                                                                                                                                                                                                                                                                                                                                            (BIOC-) BIOCARDIA INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2002-636525/68.
                                                                                                                                                                                                                                                               #O200257414-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Wohlgemuth J,
                                                                                                                                                                                                                                                                                                   25-JUL-2002.
                                                                                                                                                                                              primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
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AAA40594/C
ID AAA4055
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AC AAA4055
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Local Similarity 100. ses 19; Conservative

Query Match

AAA40594;

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Gaps

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95.0%; Score 19; DB 12; Length 19; 100.0%; Pred. No. 30; ive 0; Mismatches 0; Indels

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The sequence represents the DNA sequence encoding a synthetic heptad polypeptide. The synthetic polypeptide can be expressed in vivo in plants to serve as a synthetic seed storage protein which can be custom-tailored for specific end-user requirements. The DNA encoding the heptad may be used to transform plants to increase the content of partic. amino acids such as lysine or methionine in seeds or leaves. See also AAQ36811-28, AAQ37265-301. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New chimeric gene providing increased lysine content in plant seeds - contains di:hydro:di:picolinic acid synthase gene coupled to chloroplast transport sequence and seed specific promoter, also new plants of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2 PCR primers (AAQ94968 and AAQ94969) were designed to prime replication
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Lygine; synthetic storage protein; SSP; vector; pSK6; dibydrodipicolinic acid synthase; corn; malze; Zea mays; soybean; dibydrodipicolinic acid synthase; corn; malze; Zea mays; soybean; Glycine max; rapeseed cilseed rape; Brassica napus; transgenic plant; essential amino acid; primer; PCR; polymerase chain reaction; ss.
                                                         Synthetic polypeptide(s) contg. specified heptad units - expressed in vivo in plants to serve as custom-tailored storage proteins with specified aminoacid content.
                                                                                                                                                                                                                                                                                                                                                                                                             62.0%; Score 12.4; DB 2; Length 20; 92.9%; Pred. No. 3.3e+04; ive 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                          Seguence 20 BP; 1 A; 8 C; 6 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        70"
                                                                                                                                                 Disclosure; Page 106; 176pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          names
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ВР.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   93US-00160117.
94US-00261661.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            improved nutritional value.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAQ94968 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5 cecedecerrogere 18
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/standard
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Best Local Similarity 92.5.
Best Local 3; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first
                WPI; 1993-076517/09.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 1995-215272/28.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PCR primer SM 70.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAQ94968;
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XXXFFF7X8X55555555X8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Arp3H as an actin-related protein gene family member. The present invention provides the cDNA sequence of the actin related protein gene family member. The present invention provides the cDNA sequence of the actin related protein gene and the polypeptide encoded by the said sequence, as well as the recombination technology to produce the actin related protein gene. Sequence represents a PCR primer used in the amplification of the human Arp3A gene described in the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Heptad; plants; custom tailored storage proteins; in vivo; expression;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human actin related protein gene and encoded polypeptide preparation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                       Human; Arp3H; actin-related protein; PCR primer; amplification; 88.
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Pred. No. 3.3e+04;
0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Oligomer SM 70 used in construction of SSP polypeptides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 19 BP; 1 A; 8 C; 10 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                          (XINH-) XINHUANGPU FUDAN GENE ENG CO LTD SHANGHA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 1; Page 17; 25pp; Chinese.
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                  (first entry)
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(first entry)
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                                                              Human Arp3H PCR primer #1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                      Zhang H;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2000-443229/39.
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les 13; Conser
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                                                                                                                                                                                                                                                                                     22-OCT-1998;
                                                                                                                                                                                                                                                                                                                                22-OCT-1998;
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                  20-NOV-2000
                                                                                                                                                   Homo sapiens
                                                                                                                                                                                               CN1252448-A.
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22-JUN-1993
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XXX YH HE
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Gaps ..

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Gaps

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Length 20; 1; Indels

Score 12.4; DB 2; Pred. No. 3.3e+04; 0; Mismatches 1;

62.0%; 92.9%;

Query Match 62.0 Best Local Similarity 92.9 Matches 13; Conservative

s cecececerceere 18 CGCTGCGCTCGGTC 20

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of plasmid pSK1, but excluding a 30 base fragment around the EarI site. SMSL1 is a mutant of pRR3121 in which the ampiciling gene has been deleted. PCR was performed using pSK1 as template. The product was utilised in the produ. of pSK6 (see also AAQ94970-71), a vector used for the construction of genes (see AAQ94972-095005) coding for synthetic storage proteins (SSPB) (see AAR78236-59). These were expressed in the seeds of transformed soybean, rapeseed and corn to improve the lysine content
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           lysine inhibition; plant chloroplast transit sequence;
plant seed-specific regulatory sequence; transgenic plant;
increased lysine level; corn; Zea mays; soybean; Glycine max; PCR primer;
                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                 .,
                                                                                                                                                                                                                                                                                  Score 12.4; DB 2; Length 20;
Pred. No. 3.3e+04;
0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Dihydrodipicolinic acid synthase; DHDPS; chimeric gene;
                                                                                                                                                                                                                                  Sequence 20 BP; 1 A; 8 C; 6 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PCR primer used in the course of the invention.
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                                                                                                                                                                                                                                                                                                                                              0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAV35805 standard; DNA; 20 BP.
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93WO-US002480.
                                                                                                                                                                                                                                                                                        62.0%;
92.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 95US-00474633.
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(first entry)
                                                                                                                                                                                                                                                                                                                                                    Conservative
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                                                                                                                                                                                                                                                                                                                      Similarity
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Local Sir
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19-MAR-1992;
18-MAR-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US5773691-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            06-JAN-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          25-MAR-2003
25-AUG-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           30-JUN-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Falco SC;
                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAV35805;
                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAV35805

AAV36805

AAV368
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 7
     8×36666666
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Lysine; transgenic plant; seed storage protein; vector; pSK5; PCR;

Plasmid pSK1 PCR primer SM70.

Synthetic. Escherichia coli.

primer; ss.

WO9842831-A2

01-OCT-1998

(first entry)

29-MAR-1999

AAV99501;

BP

AAV99501 standard; DNA; 20

RESULT 8

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à

**AA**V99501

Epelbaum SU

Falco SC, Mcdevitt RE, WPI; 1999-045139/04.

(DUPO ) DU PONT DE NEMOURS & CO E I.

98WO-US006051.

27-MAR-1998; 27-MAR-1997;

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                                                                                                                                                                                                                                                                                                                                                                                                      Nucleic acids and chimeric genes for increasing seed lysine content -comprise sequence encoding all or part of lysine ketoglutarate reductase, useful to improve nutritional quality of seeds from transformed plants.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PCR primers SM70 and SM71 (see AAV99502) are designed to remove the Earl site at base 2333 of plasmid pSK1, a spontaneous mutant of pBR322 in which the ampicillin gene and the EarI site near the gene are deleted. The product was used in the construction of expression vector pSK5. Chimeric genes for lysine-rich synthetic seed storage proteins suitable AAV99513-18, AAV99523-41). The invention also provides claimed nucleic acids and chimeric genes useful for improving the mutritional quality of seeds from transpent plants. Methods involve manipulation of lysine ketoglutarate reductase and lysine setoglutarate reductase and lysine-insensitive dihydrodipicolinic acid synthase activity (see AAW87757-66)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
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0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 12.4; DB 2; Length 20;
Pred. No. 3.3e+04;
0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 20 BP; 1 A; 8 C; 6 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 21; Page 99; 231pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADA16031 standard; DNA; 20 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         62.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5 CGCGGCGCTCGGTC 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       7 CGCTGCGCTCGGTC 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        13; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADA16031;
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Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADA16031
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specification describes a Corynebacterium dapA gene, which encodes a dihydrodipicolinic acid synthase (DHDPS) enzyme, which was used to create chimeric genes of the invention. The chimeric genes contain a mucleic acid fragment encoding a DHDPS enzyme which is insensitive to inhibition by lyaine operably linked to a plant chloroplast transit sequence and to a plant seed-specific regulatory sequence. The chimeric genes are useful for producing plants containing increased levels of lysine, especially in corn (Zea mays) and soybean (Glycine max). (Updated on 25-MAR-2003 to correct PR field.)

Sequence 20 BP; 1 A; 8 C; 6 G; 5 T; 0 U; 0 Other;

PCR primers AAV35805-06 were used to in the course of the invention. The

Example 21; Col 73; 106pp; English

Chimeric genes encoding lysine production enzymes - useful for increasing transgenic seed lysine content without being inhibited by high levels of the amino acid.

us-10-605-498-82.rng

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ss; lysC; transgenic; lysine accumulation;
dihydrodipicolinic acid synthase; DHDPS; lysine inhibition;
lysine ketoglutarate reductase; LKR; chloroplast transit sequence; CTS;
aspartokinase III; AKIII; synthetic seed storage protein; SSP.
                  Plasmid pSK1 mutagenic PCR primer #1.
                                                                                                                                        (DUPO ) DU PONT DE NEMOURS & CO E I.
                                                                                                                                                    Falco SC, Keeler SJ, Rice JA;
      (first entry)
                                                                                                                                                                 WPI; 2003-028272/02.
                                                                                                  24-MAR-1997;
                                                                                                               19-MAR-1992;
                                                                                                                     06-JAN-1994;
07-JUN-1995;
                                                                          US6459019-B1
      06-NOV-2003
                                                                                      01-OCT-2002
                                                              Synthetic.
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inhibition or cosuppression. Also included are progeny plants from the above mentioned plant and seeds obtained from the above mentioned plant. The seeds obtained from the above mentioned plant. The seeds obtained from the above mentioned plant. Solve solve or corn) comprising the foreign nucleic acid sequences accumulate lysine at a higher level, preferably at a level of at least 10% higher than seeds of a plant that do not comprise the foreign nucleic acid aspertness. Chimareir gene comprising DMDPS from C. glutamicum and aspartchinase III (from the lyst gene) of B. coli (mutated to be lysine-insensitive) are also used to generate the above transgenic plants. Also Transformed plants that accumulate lysine at higher levels in its seeds than untransformed plants, has gene fragments encoding lysine-insensitive dihydrodipicolinic acid synthase and lysine ketoglutarate reductase. The invention relates to a plant comprising two foreign nucleotide sequences which cause seeds obtained from the plant to accumulate lysine at a level of at least 10% higher than seeds of a plant that do not comprise the nucleotide, where the nucleotide comprises a fragment encoding a dihydrodipicolinic acid synthase (DHDPS) that is insensitive to lysine inhibition, and a fragment encoding a plant lysine ketoglutarate reductase (LKR) or its subfragment. The nucleotide fragment is operably linked to a plant chloroplast transit sequence (CTS) and the plant lysine ketoglutarate reductase subfragment is used in antisense disclosed are synthetic seed storage proteins (SSP)used as a an internal source of lysine, built up from synthetic peptide monomers based around an Earl site sequence (for generating mutlimeric proteins). The present sequence is an oligonucleotide (or primer) used in the construction of expression plasmids for expression of the chimaeric proteins or SSPs. Example 21; Col 76; 109pp; English.

Sequence 20 BP; 1 A; 8 C; 6 G; 5 T; 0 U; 0 Other;

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;
0
Score 12.4; DB 8; Length 20;
Pred. No. 3.3e+04;
                        1; Indels
                        Mismatches
                        ö
62.0%;
92.9%;
                                                CGCGGCGCTCGGTC 18
                          13; Conservative
 Query Match
Best Local Similarity
                        Matches
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Gaps

cecrececreearc

ACH03677 standard; DNA; 20 BP. ACH03677 ID ACH( XX

RESULT 10

ACH03677;

(first entry) 25-SEP-2003 Plasmid pSK1 Ear I site mutagenic PCR primer #1.

seed lysine content; seed threonine content; seed storage protein; SSP; chloroplast transit sequence; lysine-rich protein; lysine ketoglutarate reductase; LKR; transgenic; ss; PCR; primer. Aspartokinase; AKIII; dihydrodipicolinic acid synthase; DHDPS;

Escherichia coli.

Synthetic.

US2003056242-A1. 

20-MAR-2003

2001US-00023066. 17-DEC-2001;

92US-00855414. 94US-00178212. 95US-00474633.

97US-00823771.

93WO-US002480. 94US-00178212. 95US-00474633. 97US-00823771. 92US-00855414 19-MAR-1992; 18-MAR-1993; 06-JAN-1994;

24-MAR-1997

s C (FALC/) FALCO

Falco SC;

WPI; 2003-521869/49.

New nucleic acid fragment encoding aspartokinase and dihydrodipicolinic acid synthase, useful for increasing threonine or lysine content of seeds of plant

Example 21; Page 41; 116pp; English.

first nucleic acid subfragment encoding appartokinase (AK) that is a substantially insensitive to inhibition by lysine, and a second nucleic substantially insensitive to inhibition by lysine, and a second nucleic acid subfragment encoding dibydrodibicolinic acid synthase (DHDPS) that is substantially insensitive to inhibition by lysine. Also included are an isolated nucleic acid fragment comprising a nucleic acid synthase content of the nucleic acid fragment is operably like to a plant chloroplast transmit sequence and to a seed-specific regulatory sequence, a plant comprising the nucleic acid/chimaeric gene in its genome, a seed obtained from the plant, increasing threenine or lysine content of the seeds of plant having the ability to produce levels of free threonine or lysine at a level at least than the free threonine or lysine at a level at least ten percent to four-fold higher than the seeds of an untransformed glant, a transformed seeds of an untransformed plant, a transformed plant, a transformed plant, a transformed plant, a comprising seeds that accumulate lysine to a level between ten percent and one hundred percent higher that of the seeds of an untransformed plant, a monocot plant comprising in its genome the nucleic acid fragment having the monocot comprising in its genome the nucleic acid fragment having the monocot plant comprising in its genome the nucleic acid fragment having the monocot plant comprising in the seeds of an untransformed plant, a monocot plant comprising encountate lysine to a level between ten percent and one hundred comprising encountate lysine to a level between ten percent and one hundred from thirty percent higher than the seeds of the untransformed plant. A monocot plant compressed are synthetic lysine-rich seed storage proteins (SSP), built up the seeds of the monomer lysine-rich heptad repeats (encoded by Earl restriction contents mucleic acid fragment and an encoded by Earl restriction contents mucleic acid fragment and an encoded by Earl restriction contents mucleic ac enzyme-based oligonucleotides) used as a pool of lysine in a transformed plant. The nucleic acid fragments, genes and methods are useful for increasing threonine or lysine content of the seeds of the plant. Seeds containing increased threonine or lysine content eliminate the need to supplement mixed grain feeds with lysine or threonine, produced via the invention relates to an isolated nucleic acid fragment comprising microbial fermentation. The present sequence is an oligonucleotide unin the prearation of a version of plasmid pSK1 used to clone the SSP synthetic sequences

Sequence 20 BP; 1 A; 8 C; 6 G; 5 T; 0 U; 0 Other;

Human, synaptosomal-associated protein 29 kD; SNAP29 protein; primer; haplotyping; genotyping; membrane trafficking related disorder; ASO; gene therapy; polymorphism; allele-specific oligonucleotide; ss.

Tanguay DA;

Kazemi A, Koshy B,

(GENA-) GENAISSANCE PHARM INC.

23-MAY-2000; 2000US-0206529P. 23-MAY-2001; 2001WO-US016938.

WO200190126-A2 Homo sapiens.

29-NOV-2001.

Human SNAP29 gene polymorphism detecting ASO primer #11

09-APR-2002 (first entry)

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present sequence represents a tubercle bacillus gene chip and its application. According to the characteristics of tubercle bacillus genome sequence and molecular mechanism produced by tubercle bacillus resistance to drug, and according to its application the probe can be designed and selected, and the probe array can be regularly and reasonable arranged according to a certain mode to form optimized probe array. The gene chip can be used for quickly, accurately and high-efficiency identifying tubercle bacillus, and can be used for screening and detecting its tresistance to drug, and can detect the mutation of specific site of tubercle bacillus gene sequence and the mutation of non-specific site. The invention can be used for tubercles and reasonable selection of medicine. The present sequence represents a probe related to
                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A tubercle bacillus gene chip useful for tuberculosis diagnosis and reasonable selection of medicine.
                                     ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 12.4; DB 10; Length 20;
Pred. No. 3.3e+04;
0; Mismatches 1; Indels 0
      Length 20;
                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Seguence 20 BP; 3 A; 10 C; 5 G; 2 T; 0 U; 0 Other;
    Score 12.4; DB 9;
Pred. No. 3.3e+04;
0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; SEQ ID NO 59; 4pp; Chinese.
                                                                                                                                                                                                                                                                                                   tubercle bacillus gene chip; ss; probe
                                                                                                                                                                                                                                                                       Probe related to the invention #59
                                                                                                                                                                          ADF73001 standard; DNA; 20 BP
    62.0%;
92.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                05-JAN-2001; 2001CN-00107010.
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92.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             05-JAN-2001; 2001CN-00107010
                                                                  CGCGGCGCTCGGTC 18
                                                                                                7 cécrécécréégre 20
                                                                                                                                                                                                                                        (first entry)
                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Bao L, Zhang W, Wang X;
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Query Match
Best Local Similarity
Matches 13; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (BAOL/) BAO L.
                                                                                                                                                                                                                                        26-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                  CN1362526-A.
                                                                                                                                                                                                                                                                                                                                                                                                 07-AUG-2002
                                                                                                                                                                                                                                                                                                                                  Synthetic.
                                                                                                                                                                                                           ADF73001;
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The invention relates to genetic variants of human synaptosomal-associated protein, 29 kD (SNAP29) gene. The invention also relates to compositions and methods for haplotyping and/or genotyping the SNAP29 gene in an individual. Polymucleotides of the invention are useful for studying the expression and function of SNAP29 and expressing SNAP29 protein for use in screening candidate drugs to treat diseases related to SNAP29 activity. They are also used in gene therapy. The genotyping method is useful for determining if an individual has one of haplotype validating whether SNAP29 is a suitable target for drugs to treat disorders related to membrane trafficking, screening for such drugs and reducing bias cells in clinical trials of such drugs. The present sequence is an allele-specific oligonucleotide (ASO) primer used to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                      Novel isolated polynucleotide, a polymorphic variant of synaptosomal-associated protein, 29 kD (SNAP29) gene useful for expressing SNAP29 protein isoform to screen drugs to treat SNAP29 activity-related disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Excenzyme S; exoS; detection; treatment; vaccination; infection; production; antibody; modification; ras protein; carcinoma; probe; mammalian; recombinant; primer; PCR; polymerase chain reaction; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pseudomonas aeruginosa exoenzyme S gene antisense PCR primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              59.0%; Score 11.8; DB 6;
86.7%; Pred. No. 6.3e+04;
iive 0; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     detect human SNAP29 gene polymorphisms
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 16; Page 13; 115pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAT61840 standard; DNA; 17 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                13; Conservative
                                                                                                                                                                                                                                                                                                                                                                         WPI; 2002-089916/12.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity
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Gaps

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AAD26768 standard; DNA; 15 BP.

AAD26768

RESULT 12
AAD26768/C
ID AAD26
XX
AC AAD26

6 GCGGCGCTCGGTCA 19

13; Conservative

Matches

Local Similarity

19 GCGCCCTGGGTCA 6

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                                                                                                                                                                                         The present sequence is a PCR primer for the gene encoding the 49 kDa form of the Pseudomonas aeruginosa exoenzyme S (exoS), which can be used to detect, and in vaccines against P. aeruginosa infection. The protein can also be used to produce antibodies, which can be used to detect and treat P. aeruginosa infection, and modify ras protein function in mammalian carcinomas. The exoS gene can be used as a probe to detect P. aeruginosa infection, and in a vector for recombinant exoS production
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nucleic acid binding polypeptide; repressor domain; cardiant; nootropic; circulatory active; anti-inflammatory; dermatological; neuroprotective; cerebroprotective; antibacterial; antifungal; antiviral; antirheumatic; osteopathic; gene therapy; zinc finger; binding site; ss.
                                                                                                                                  New isolated P. aeruginosa exo:enzyme S DNA - used to develop prods. Ithe detection, treatment and prevention of infections or for treating
                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                        Match 59.0%; Score 11.8; DB 2; Length 17; Local Similarity 66.7%; Pred. No. 6.3e+04; les 10; Conservative 4; Mismatches 1; Indels
                                                                                                                                                                                                                                                                       Sequence 17 BP; 1 A; 6 C; 3 G; 2 T; 0 U; 5 Other;
                                                                                                                                                                       Disclosure, Col 19-20; 23pp; English.
                                                                                              Kulich SM, Barbieri JT, Frank DW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Coding strand of binding site bsG.
                                                                                                                                                                                                                                                                                                                                                                                                AAH23296 standard; DNA; 19 BP
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30-MAY-2000; 2000GB-00013102.
30-MAY-2000; 2000GB-00013103.
                                     93US-00171299
                                                        93US-00171299
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    19-JAN-2001; 2001WO-GB000202
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  30-MAY-2000; 2000GB-00013104
                                                                                                                                                                                                                                                                                                                               2 GGACGCGCGCTCGG 16
                                                                                                                                                                                                                                                                                                                                          Klug A, Moore M;
                                                                                                                                                                                                                                                                                                                                                                                                                                      17-SEP-2001 (first entry)
                                                                           (MCWR-) MCW RES FOUND INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2001-451906/48.
                                                                                                                WPI; 1997-118290/11.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (GEND-) GENDAQ LTD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO200153480-A1.
                                                                                                                                                       carcinoma(s).
                                     21-DEC-1993;
                                                        21-DEC-1993;
US5599665-A
                   04-FEB-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                26-JUL-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                    AAH23296;
                                                                                                                                                                                                                                                                                         Query Match
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                                                                                                                                                                                                                                                                                                            Matches
셤
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The invention relates to a nucleic acid (NA) binding polypeptide (I) comprising a repressor domain and several NA binding domains (BDs) linked by at least one non-canonical linker. (I) may be used to identify NAs in a complex mixture, to differentiate single base pair changes in NAs, in the manufacture of chimeric restriction enzymes, to produce knock out corganisms, and in the treatment of diseases such as: cardiovascular, inflammatory, metabolic, infectious, neurological, rheumatological, genetic, dermatological, and musculoskeletal diseases. The invented methods are used to produce novel NA binding polymucleotides and to modify existing NA binding polymucleotides comprising several NA BDs. The novel polypeptide comprises several nucleic acid binding domains linked by linker sequences. The invented polypeptide is therefore able to span longer or variable gaps, and a greater number of gaps, between DNA binding subsites. Sequences AAH21290-296 represent coding strand sequences of the binding sites used in gel shift experiments with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
Nucleic acid binding polypeptide, used to identify nucleic acids and treat inflammatory, neurological, and dermatological disease, comprises a repressor domain and several nucleic acid binding domains linked by non-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human telomeric repeat binding factor 2 oligonucleotide 111372.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    59.0%; Score 11.8; DB 4; Length 19; 86.7%; Pred. No. 6.3e+04; Live 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         'note = "phosphorothioate backbone"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /mod_base= OTHER
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                                                                                                                                                                                                                                                                                                                         Example 9; Page 66; 142pp; English.
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ID AAH20644 standard; DNA; 20 BP.
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Best Local Similarity 86.77
Conservative
The state of the 
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(ISIS-) ISIS PHARM INC.

Monia BP, Cowsert LM;

WPI; 2001-398071/42.

Antisense compounds targeted to nucleic acid encoding telomeric repeat binding factor 2 useful for treating conditions such as premature aging and diseases such as cancer.

Claim 3; Page 80; 108pp; English.

in length targeted to a polyucleotide encoding human telomeric repeat binding factor 2 (II) which specifically hybridizes with, and inhibits the expression of (II). (I) is useful for treating a human having a disease or condition associated with (II) such as premature aging or a hyperproliferative disorder especially cancer, by inhibiting the expression of (II) in human cells or tissues. (I) is useful for diagnostics, therapeutics, prophylaxis and as research reagents and kits. The products of the invention have cytostatic activity. This sequence represents an antisense oligonucleotide used to illustrate the method of the invention This invention describes a novel antisense compound (I) 8-30 nucleobases 

Gaps ; 0 Score 11.8; DB 5; Length 20; Pred. No. 6.3e+04; 0; Mismatches 2; Indels 59.0%; 86.7%; Query Match
Best Local Similarity 86.7
Matches 13; Conservative

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5 CGCGGCGCTCGGTCA 19

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18 CGCGGCGATCGGACA 4

Search completed: May 3, 2005, 19:48:37 Job time : 429 secs

Sequence 20 BP; 1 A; 8 C; 7 G; 4 T; 0 U; 0 Other;